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"CHEMICUS LONDON."

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DECEMBER 9, 1911.

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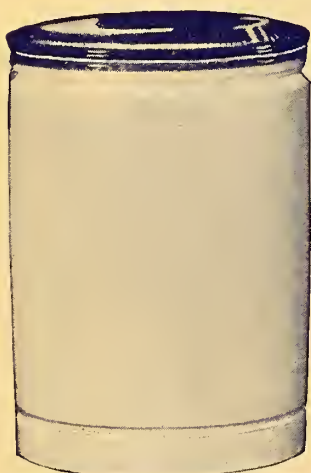
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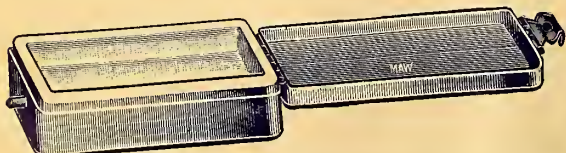
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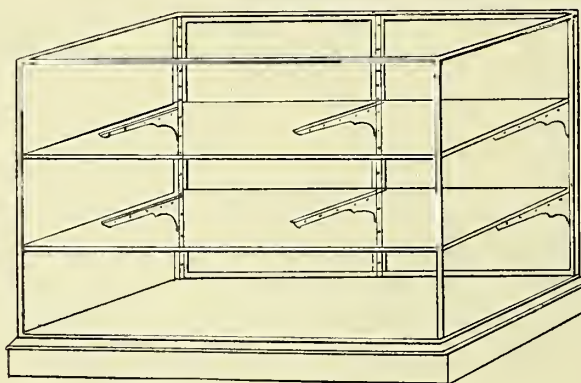


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COUNTER ADJUNCTS

Evans Sons Lescher & Webb Ltd

COUNTER DISPLAY STANDS

London & Colonial Mfg. Co.

COUNTER SPECIALITIES

Allen & Hanburys, Ltd.
British Drug Houses, Ltd., The
Hewlett, C. J., & Sons
Lloyd, T. H., & Co., Ltd.
Lorimer Marshall
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.

CURT PLASTER

Pharm. Indust. Ges. (Offen-
bach)
Solport Bros.

CREAM OF TARTAR

British Drug Houses, Ltd., The

CREOSOTE

Baiss Bros. & Stevenson, Ltd.
Burt, Boniton & Haywood, Ltd.
Morson, T., & Son

CREPE BANDAGES

Burge, Warren & Ridgley, Ltd.
Gimber, W., & Son
Leslies, Ltd.
Norwich Crêpe Co. (1856), Ltd.
Wood, Vincent

CYANIDES

May & Baker, Ltd.

DAIRY SPECIALITIES

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

DENTAL MECHANICS

Cullwick H. E.
Fentiman, A. G.
Fentiman, A. J., & Co.
Garthwaite, H.
Halder, E. C.
Smith, J. S.
Wardals & Co.

DEVELOPERS

Express Developing Co.

DEXTRINE

Fink, F., & Co.

DIGESTIVE PRODUCTS

Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons
Widenmann, Broicher & Co.
Zimmermann, O., & Co.

DENTIFRICES

Bash & Co.
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Eucri, Ltd.
Jewsbury & Brown
John Strange Winter
Knox, Walker, J., & Co.
Lambert Pharmaceutical Co.
McKesson & Robbins (Inset)
Mason Bros. & Chapman
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Riedel, J. D., & Co.
Sangers'
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.

DEVELOPERS (PHOTO)

Griffin, John J., & Sons, Ltd.
Johnson & Sons (Mfg. Chts.)

DIABETIC FOODS

Brusson Jeune
Van Abbot, G., & Sons

DISINFECTANTS

Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Jeyes' Sanitary Compds., Ltd.
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.

DOUCHES

Maw, S., Son & Sons
Reuter, R. J.

DRUGGISTS' SUNDRIES

Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Swales, Thomas
Toogood, W., Ltd.
Wattenbach, O.
Woolley, J., Sons & Co., Ltd.

DRUGS, CRUDE

Baiss Bros. & Stevenson, Ltd.
Brook, Parker & Co., Ltd.
Gathergood's Exor.
Goodall, Backhouse & Co.
Horner & Sons
Potter & Clarke, Ltd.
Ransom, W., & Son
Sparks, White & Co., Ltd.

DYES

Crawshaw, E., & Co.

Judson, Daniel & Son

Whitaker & Co. (Hat)

DYEWARES

Clemons, Marshall & Carbert

EAU DE COLOGNE

Farina, J. M.
Farina, J. M. (No. 4)
Farina, Johann Maria
Fickus, Courtney & Co.
McCracken, J., & R.
Schutze, F., & Co., Ltd.
Van Oppen Ross & Co.

EAU DE COLOGNE SOAP

Van Oppen Ross & Co.

EFFERVESCENT PREPS.

Bishop, Alfred, Ltd.
Bristol-Myers Co.
Guest, Thos., & Co.
Lloyd, T. Howard & Co.
Wright, Layman & Umney, Ltd.

ELASTIC HOSIERY

Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosiery Co., Ltd.
Wood, Vincent

EDUCATIONAL INSTITUTES

Bath & West of England College
Birmingham & Midland College
College of Preceptors
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
South of England College
Westminster College

ELASTIC GUM INSTS.

Mason Bros. & Chapman

ELECTRICAL NOVELTIES

Ward & Goldstone

EMBROCATIONS

Ayrton, Saunders & Co., Ltd.

EMERY AND CLOTH

Osakey, J., & Son, Ltd.

EMULSIFIERS

Bennett, Sons & Shears, Ltd.

EMULSIONS, C. L. O. & C.

Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burdidge & Co.
Parke, Davis & Co.

ENEMAS

Burge, Warren & Ridgley, Ltd.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Warne, W., & Co., Ltd.

EPSON SALTS

Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.

ESSENCES, CONCRETE

Lautier Fils
Tombarel Freres

ESSENCES, SOL. AND FRUIT

Alliance Drug and Chem. Co.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
Lautier Fils
London Essence Co.
Newball & Mason
Stevenson & Howell, Ltd.

ETHERS

Baiss Bros. & Stevenson, Ltd.
Duncan, Floekhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL

British Drug Houses, Ltd., The

EXTRACT OF HERBS

Newball & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)

Allen, Stafford & Sons, Ltd.
Evans Sons Lescher & Webb, Ltd.
Gathergood Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son

FACTORY SITES

North-Eastern Railway
Great Western Railway

FEEDING BOTTLES

Bush, Henry W., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Horlick's Malted Milk Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Reuter, R. J.
Sangers'

FILTERS

Berkefeld Filter Co., Ltd.

FOODS, INVALID, ETC.

Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Burgoyne, Burdidge & Co.
Cox, Arthur H., & Co., Ltd.
Fairchild Bros. & Foster
Horlick's Malted Milk Co.
"Lemco and Oxo"
Lofthouse & Saltmer
Menley & James, Ltd.
Natural Food Co., Ltd.
Neave, Josiah R., & Co.
Theinhardt's Food Co.
Turtle Cup (1911), Ltd.
Wander, A., Ltd.
Willows, Francis, B. & T.

FULLER'S EARTH

Mumford, G. S., & Sons

FUMIGATORS

Sanitas Co., Ltd.

FLESH GLOVES, STRAPS, & C.

Reuter, R. J.
Solport Bros.

FLYCATCHERS

Alabastine Co. (British), Ltd.
Deansmere Manfg. Co.
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, J. H., & Co.
Tanbridge & Wright

FURNITURE POLISH

Elvee Company

GLAUBER'S SALT

Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERINE

Melfert, Hermann & Co.
Price's Patent Candle Co., Ltd.

GLYCEROPHOSPHATES

Merck, E.
Pointet & Girard
Reitmeyer & Co.

GOLD PAINT

Judson, D., & Son

GRINDERS, DRUG, & C.

Allen, Stafford & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.

GRIPE WATER

Woodward, W., Ltd.

GUMS

Fink, F., & Co.
Kidston, W. M., & Co.

HAIR DYES

Blackie, Robert
Harker, Stagg & Morgan, Ltd.
Osborne, Garret & Co.

HAIR PREPARATIONS

Anglo-Continental Trading Co.
Chesbrough Manfg. Co.
Edwards' "Harlene" Co.
Egglossa Manfg. Co.
Harker, Stagg & Morgan, Ltd.
Harrison, G. W.
Herpicide Co.
John Strange Winter
Odol Chemical Works
Osborne, Garret & Co.
Robare's Aureoline
Sotto Manfg. Co.
Vibert, F.
Warner Oliver, Ltd.

HAT CLEANERS

Christy, Thos. & Co.
Senior, Alf., & Co.

HAT DYES

Judson, D., & Son
Whitaker & Co.

HAY FEVER REMEDY

Lu-Ku Co.

HEATING APPARATUS

Clark's Syphon Stove Co., Ltd.
Rajar, Ltd.
Richmond Gas Stove & Meter

HERBS

Brook, Parker & Co., Ltd.
Pannett & Neden
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMOEOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Keene & Asbwell, Ltd.

HOTELS

Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES, & C.

Bailey, W. H., & Son
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Galen Manfg. Co., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Sheath Bros.
Southall Bros. & Barolaw
Tompkins, James, Ltd.
Wood, Vincent

HYPOPHOSPHITES

May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

HYDROGEN PEROXIDE

May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

ICHTHYOL

Ichthyol Gesellschaft

INHALERS

Burroughs Wellcome & Co.
Maw, S., Son & Sons
Sanitas Co., Ltd.

INK POWDERS

Williams Bros. & Co.

INSECT POWDER

Keating, Thomas

INSECTICIDES

Christy, Thos. & Co.
Tomlinson & Hayward, Ltd.
Voss, Walter, & Co., Ltd.

INSTEP SUPPORTS

Scholl, C. Manfg. Co.

IODINE RESUBLIMED

Howards & Sons, Ltd.
Huskisson, H. O., & Co.

IRISH MOSS

Cumming, J. W.
Salle, H., & Co.

ITROSYL

Fletcher, Fletcher & Co.

JARS AND POTS

Dowell, John
Johnsen & Jorgensen, Ltd.
Maw, S., Son & Sons
Melin, O., & Co.
Pfeifer, O. A.
Reuter, R. J.
Stipendium Stopper Co.

JELLOIDS

Jelloid Co.

JUJUBES

Guest, Thos., & Co.
Potter & Clarke, Ltd.

JUNIPER BERRIES

Seligsohn, E.

JUNKET POWDER

Armour & Co., Ltd.

LAMPS

Block Light Co., Ltd.

LANOLINE

Burroughs Wellcome & Co.

LARD

Ewen, J., & Sons

LAVENDER OIL

Zimmermann, C., & Co.

LAVENDER WATER

Maddocks & Co.

LEATHER DYES

Williams, Bros. & Co.

LECITHIN

Chem. Works "Victoria."
Salle, H., & Co.

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb Ltd.
Goodall, Backhouse & Co.

LINSEED, CRUSHED, & C.

Mumford, G. S., & Sons

LINTS

Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Taylor, W. G.

LIQUORICE JUICE

Apollo
Evans Sons Lescher & Webb Ltd.
Horne & Sons
Jackson, E. E.
Mumford, G. S., & Sons
Solazzi

LIQUORS, CONC. & C.

Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.
Wyleys, Ltd.

LITHIA SALTS

British Drug Houses, Ltd., The
May & Baker, Ltd.

LOOFABS

Intern. Sponge Importers, Ltd.
Solport Bros.

LOOSE-LEAF ACCOUNT

Books
Morland & Impey, Ltd.

LOZENGES

Ayrton, Sannanders & Co., Ltd.
Denoual, J., & Co.
Gnest, Thos. & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raines & Co.
Standard Tablet & Pill Co., Ltd.
Warrick Bros.

MACHINERY, PHARMACAL

Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Comet Chemical Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, J. J., & Sons, Ltd.
Lister, R. A., & Co., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Wilkinson, S. W., & Co.

MAGNESIA AND ITS PREPS.

British Drug Houses, Ltd., The
Corbyn, Stacey & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ltd.

MARKING INK

Brooks, Tom
Hickisson, A. (Bond's)
Williams Bros. & Co.

MALT EXTRACT & PREPS.

British Diamalt Co., Ltd.
British Drug Houses, Ltd., The
Burroughs Wellcome & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb

METAL GOODS

Betts & Co., Ltd.

MEAT EXTRACTS

Armour & Co., Ltd.
Brand & Co., Ltd.
"Lemco and Oxo"
Tooth's Extract of Meat Co.
Turtle Cup (1911), Ltd.

MECHANICAL SHOW**FIGURES**

Bush, Henry W., & Co., Ltd.

MENTHOL SNUFF

Christy, T., & Co.
Shirley Bros., Ltd.

MERCURIALS

Alliance Drug & Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

METHYLATED SPIRIT

Burrough, J., Ltd.
Maenair, A., & Co.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MICROSCOPES

Raphael's, Ltd.

MINERAL WATERS, SALTS

Apollinaris Co., Ltd.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)
Vittel

MIXERS AND SIFTERS

Comet Chemical Co., Ltd.
Gardner, Wm. & Sons (Gloucester), Ltd.

MUSTARD PLASTERS

Rueff, Julius

NIGHT LIGHTS

Prescott & Co.

OILS, MINERAL, FATTY

Allen, Stafford & Sons, Ltd.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Stern Sonneborn Oil Co., Ltd.

OILS, ESSENTIAL

Allen, Stafford & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake, A., Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Delvendahl & Kuntzel
Dodge & Oleott Co.
Evans Sons Lescher & Webb, Ltd.
Lautier Fils
London Essence Co.
Poppelreuter, W.
Ransom, W., & Son
Schimmel & Co.
Stevenson & Howell, Ltd.
Tombarel Freres
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, Chas. & Co.

OINTMENT MILLS

Wilkinson, S. W., & Co.

OINTMENTS

Blackie, Robert
Burgess, E.
Calvert, F. C., & Co.
Cox, Arthur H., & Co.
Oldfield, Pattinson & Co.
Peat Products (Sphagnum), Ltd.
Smith, Maurice
Zimmermann, Chas., & Co.

OLIVE OIL

Goodall, Backhouse & Co.
Sparks, White & Co., Ltd.
Varaldi, F.

OPTICAL GOODS

Baird, John
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.
Raphael's, Ltd.

OPTICAL TUITION

British Optical Institute, Ltd.
Spectacle Makers' Company.

ORANGE WINE

Hobson, Joseph, & Son
Melrose-Drover Co., Ltd.
Miller, A., & Co., Ltd.

OTTO OF ROSE (SYNTH.)

Crown Chem. Wks.
Wright, Layman & Umney, Ltd.

PALATINOLIDS

Oppenheimer, Son & Co., Ltd.

PATENT AGENT

Barker, R. W.

PHOTO. POSTCARDS

Rajar, Ltd.

PACKED GOODS

Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton, James & Co. (1909)
Brook, Parker & Co., Ltd.
Cox, Arthur H. & Co., Ltd.
Christy, Thos., & Co.
Davies, Sons & Co.
Goodall, Backhouse & Co.
Harker, C. R., Staggs & Morgan
Knox, Walker J. & Co.
Lloyd, T. Howard, & Co.
Lorimer Marshall
May, Roberts & Co., Ltd.
Newball & Mason
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers'
Shirley Bros., Ltd.
Standard Tablet & Pill Co., Ltd.

PASTILLES

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Evans Sons Lescher & Webb, Ltd.
Guest, Thos., & Co.
Valda Pastilles
Warriek Bros.

PEPPERMINT OIL

Bing, M. & A. C.

PERFUME MATERIALS

Bush, W. J., & Co., Ltd.
Delvendahl & Kuntzel
Horner & Sons
Lautier Fils
Naef, M., & Co., Sucers.
Schimmel & Co.
Tombarel Freres
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

PERFUMES

Allen & Hanburys, Ltd.
Atkinson, J. & E., Ltd.
Baiss Bros. & Stevenson, Ltd.
Barelay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Claber, S., & Co., Ltd.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Halifors Co.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Jago & Jerome
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Newbery, F., & Sons, Ltd.
Piver, L. T.
Quelch, H. C., & Co.
Rivers, Hill & Co., Ltd.
Southall Bros. & Barelay, Ltd.
Vinolia Co.
Warriek Bros.
West, T., & Son
Wolf, F., & Sohn

PESSARIES (SOLUBLE)

Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

PETROLEUM JELLY

Chesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.
Stern, Sonneborn Oil Co., Ltd.

PHOTO. CHEMICALS

Boehringer, C. F., & Soehne
Griffin, John J., & Sons, Ltd.
Johnson & Sons (Mfg. Chts.), Ltd.
Reitmeyer & Co.

PHOTO. GOODS

Barelay & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Ilford Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Oppenheimer, Son & Co., Ltd.
Sylvax Photo Works.

PHOTO. RUBBER GOODS, & C

Altrincham Rubber Co.

PLASTIC MODELS

Knox, Walker (J.), & Co.

POSTAL BOXES

Robinson & Sons, Ltd.

PLASTERS

Allcock Mfg. Co.
Berliner, Arthur
Dalmas, A. de St., & Co.
Leslies, Ltd.

PILL MAKERS

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
British Drug Houses, Ltd., The
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
Standard Tablet & Pill Co., Ltd.
Wand Manfg. Co.
Wyleys, Ltd.

PLEATED PAPER

Darter, Wilkinson & Co.
Smith Bros. & Co.

"POISON" BAND

Dowell, John

POLISHES (VARIOUS)

Bradley & Bourdass
Oakley, J., & Sons, Ltd.

POSTERS

Ford, Shapland & Co.

PRINTERS

Ford, Shapland & Co.
Harrison & Waide
Suttley & Silverlook, Ltd.
Townsend, J., & Sons

PRINTING PRESS

Paragon Press Co.

PROPRIETARY ARTICLES

Ashton & Parsons, Ltd.
Barelay & Sons, Ltd.
Beecham, T.
Bow's Linament, Ltd.
British Drug Houses, Ltd., The
Burgess, E.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Clark, Cicero S.
Crimson Cross Dispensary
Daisy, Ltd.
Danys Virus, Ltd.
Davenport, J. T., Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Med. Mfg. Co.
Fennings, Alfred
Ferris & Co.
Fox & Co. (Liverpool), Ltd.
Freeman's Chlorodyne, Ltd.
Finford, O. E., Ltd.
Goodall, Backhouse & Co.
Harrison, Geo. W.
Henry, T. & W.
Hughes, E. Griffiths
Iohthyl Gesellschaft
Kay Bros., Ltd.
Kintow, S., & Co., Ltd.
Lalor's Phosphodyne
"Lemco" and "Oxo"
Lofthouse & Saltmer
"Ln-Ku" Co.
Maokenzie's Onre Depot
Martindale, W.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oppenheimer, Son & Co., Ltd.
Owbridge, W. T., Ltd.
Phillips, Chas. H., Chem. Co.
Resinol Chemical Co.
Richter, C., & Co.
Riedel, J. D., Co.
Sangers'
Sargol, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Smith, Lewis
Squirs & Sons
Standard Tablet & Pill Co., Ltd.
Tefras Speciality Co., Ltd.
Thompson & Capper
Tunbridge & Wright
Ucal Works
Urillao Syndicate
Valda Pastilles
Wander, A., Ltd.
Warner Oliver, Ltd.
Warriek Brothers
Wilcox, Jozeau & Co.
Williams, G. M., & Co., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

PUFFS

Solport Bros.

PULVELLÆ

Warriek Bros.

PULVERETTES

Oppenheimer, Son & Co.

PUMPS

Berkereld Filter Co., Ltd.

QUININE AND SALTS

Allmanes Drug & Chem. Co.
Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.
Pointet & Girard

RECIPES

Brooks, Tom

RESIN AND RESINOIDS

Allen, S., & Sons, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RENNET

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESPIRATORS

Zimmer & Co.

RUBBER GOODS

Berliner, Arthur
Burgs, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Le Brasseur Surg. Mfg. Co.,
Maw, S., Son & Sons
Surgical Hosiery Co., Ltd.
Warne, W., & Co., Ltd.

RUBBER STAMPS

Richford, C. D.

SACCHARIN

Saccharin Corporation, Ltd.

SAMPLE CASES

Keane, Thomas

SANITARY TOWELS

Bush, H. W., & Co., Ltd.
Southall Bros. & Barclay, Ltd.

SANTONIN

Smith, B. A., & Co.

SAPONIN

Field, C. W.

SAUCES

Goodall, Backhouse & Co.

SCALE PREPARATIONS

Morson, T., & Son

SCIENTIFIC APPARATUS

Reynolds & Branson, Ltd.

SEA SALT

Tidman & Son, Ltd.

SEALS, ADVERTISING

Dennis & Ludlam

SEEDS

Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanburys, Ltd.
Evans Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Richter, C., & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHARES

MaAdam & Tuckniss

SHELLAC

Kershaw, H. E., Ltd.

SHEEP DIPS

Burt, Boulton & Haywood

Tomlinson & Hayward, Ltd.

SHEEP MEDICINES

Pettifer, Stephen, & Sons

SHOP FITTING

Ayrton-Graham, Ltd.

Bowling & Son

Cook, George

Evans Sons Lescher & Webb, Ltd.

Grant, D.

Josephs, Philip & Sons, Ltd.

London & Colonial Mfg. Co.

Maw, S., Son & Sons

Parnall & Sons, Ltd.

Rudduck & Co.

Sangers'

Southall Bros. & Barclay, Ltd.

SHOULDER STRAPS

Wood, Vincent

SOAP MATERIALS

Armour & Co., Ltd.

SODA FOUNTAINS

Flugel & Co.

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.
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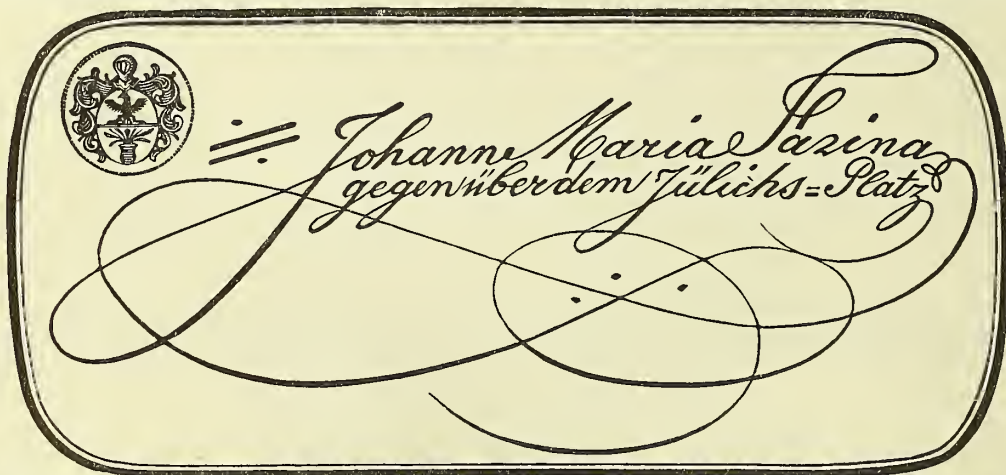
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I have the pleasure to hand you my Price List at foot and would call your special attention to the facsimile of my Label as under. I have instituted thirteen suits in the High Court of Chancery for the protection of my Trade Mark, all of which have been decided in my favour.



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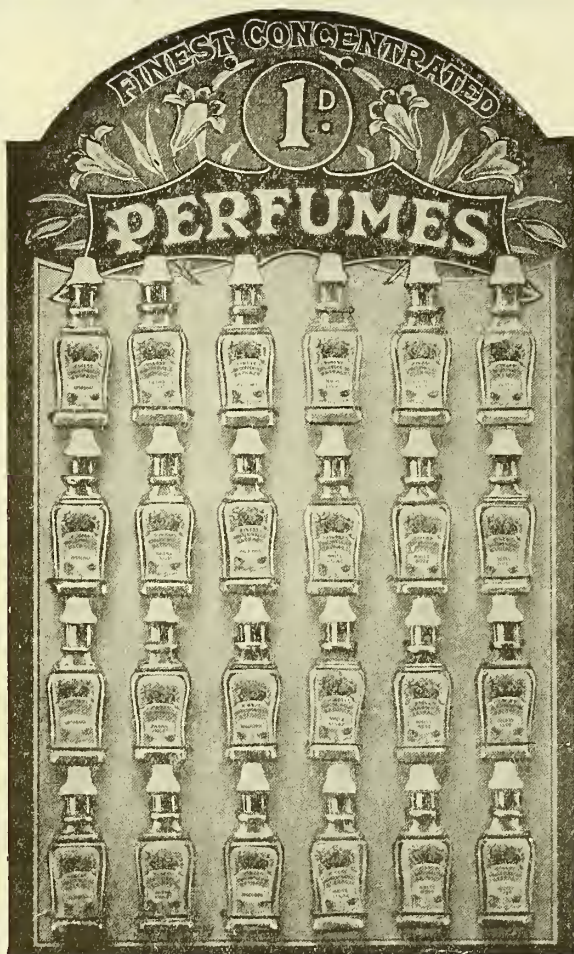
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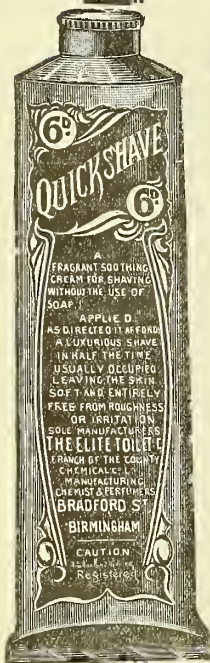
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(As prepared from the Quintuple Formula of the Famous West-End Hair Specialist, Mr. Warner Oliver.)

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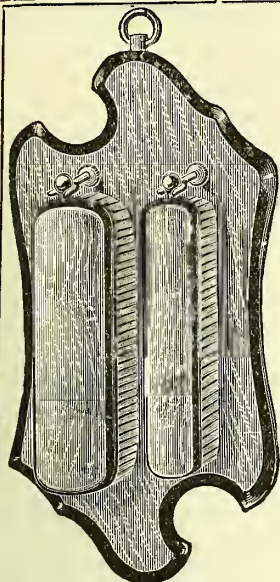
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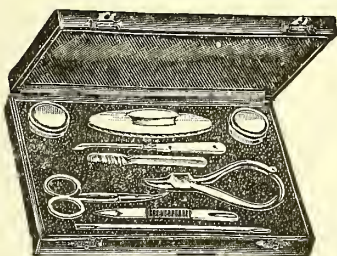
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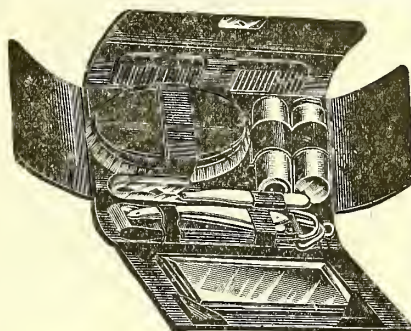
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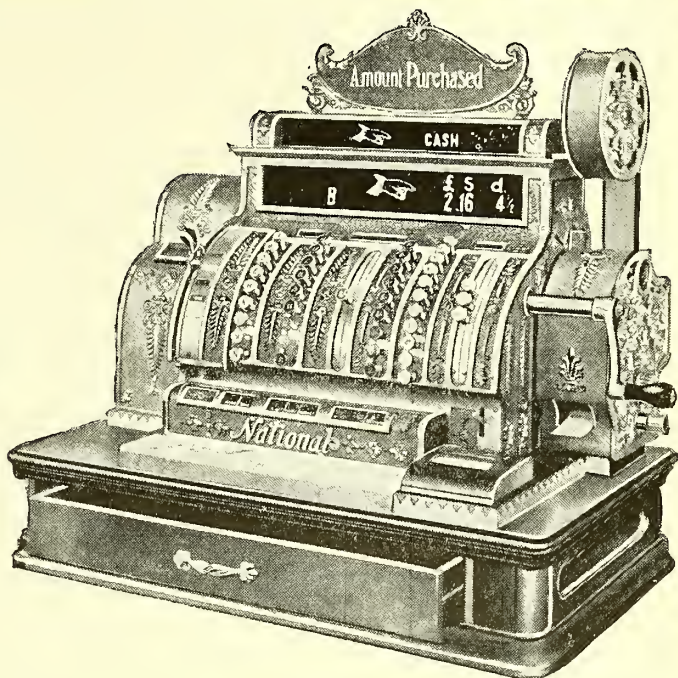
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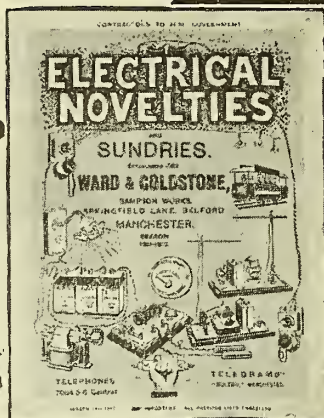
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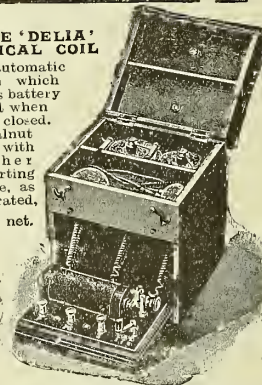


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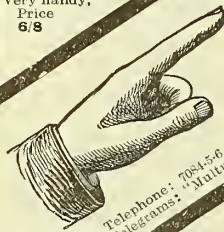
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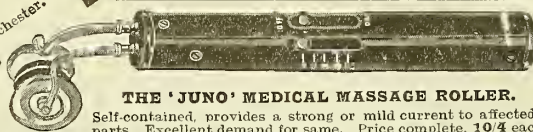


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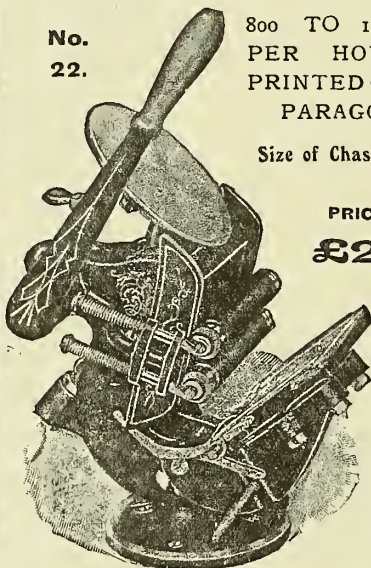
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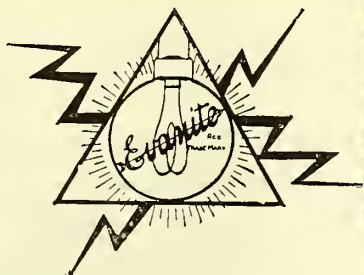
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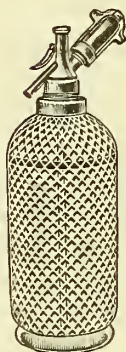
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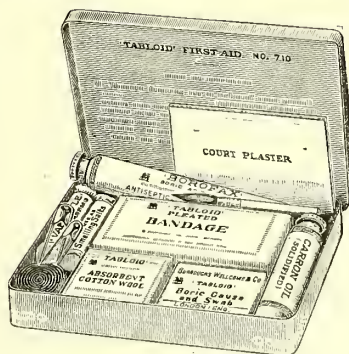
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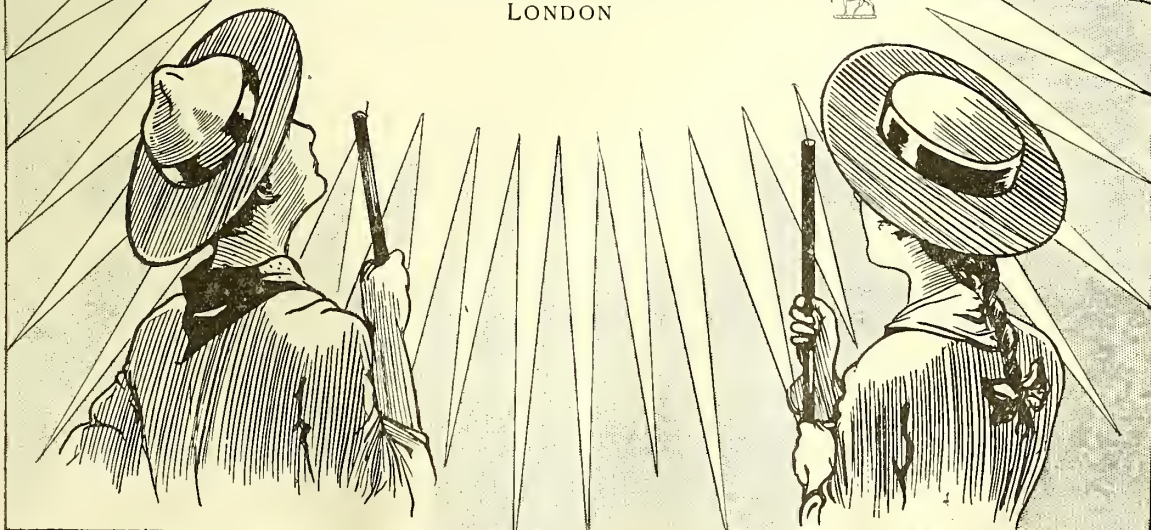
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Is a great feature in present-day advertising. Business-men are now convinced that effective and persistent publicity is one of the most important factors in commercial success in these modern times. Many advertising firms in the drug-trade produce handsome circulars and illustrated price-lists of their own. Provided these are the size of THE CHEMIST AND DRUGGIST page (printed matter 9 in. by 6½ in.), they may be distributed to a selected circulation of 12,000 directly interested traders by means of

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The next opportunity for doing this is afforded in the Winter Issue of THE CHEMIST AND DRUGGIST, to be published on January 27, 1912. Write to the Publisher, 42 Cannon Street, London, E.C., for further particulars and advice as to the production of suitable insets.

Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

The rhizome of *Sarracenia purpurea* was introduced as a specific for small-pox fifty years ago (p. 66).

The Secretary to the Army Council informs us that anybody may use the red cross in trade for four years. See p. 50.

Some hints to retailers on what to do to get a share of the money spent on presents at this season are given on pp. 50 and 51.

Legal bearings of the use of the words "Poison" and "Poisonous" are discussed by correspondents (p. 64) and ourselves (p. 50).

Mr. T. C. Cornwell, President of the North-East Staffordshire Chemists' Association, is the subject of the biographical note which prefaces Winter Session reports (p. 51).

"A New Departure" describes a series of "post-graduate" lectures on essential oils to be delivered at the School of Pharmacy next year by Sir William Tilden, Professor Perkin, and Mr. J. C. Unwin (p. 49).

Junket-powder, dental modelling composition, gelatin pill-coating, the therapeutics of celery, tale toilet-powders, black-water fever, Wasserman's reaction, oxygen-baths, glycin developer, and aluminium-polish are a few subjects dealt with in answers to correspondents (p. 65).

National Insurance Bill.

Clause 16 (5) as it has gone to the House of Lords will be found on p. 43.

What the Pharmaceutical Council has arranged about watching it is reported on p. 56.

Liverpool pharmacists have requested the Council to do something drastic (p. 44).

Edinburgh pharmacists have written to Mr. Lloyd George asking him to restore the clause to its Committee conditions (p. 43).

Xrayser II. is thankful that dispensing under the measure is to be given to registered men (p. 47).

We suggest that an effort should still be made to place the Pharmaceutical Society in a consultative position as regards the Commissioners' regulations for dispensing (p. 48).

Mr. Smith Whitaker, Medical Secretary of the British Medical Association, has been appointed Deputy-Chairman of the Commission. This has been called the "Great Betrayal" (p. 44).

It seems not improbable that herbalists and others may be selected as medical advisers under Clause 16 (3). We report an interview with Mr. Braithwaite on the point (p. 44).

Legal and General.

The British secret-medicine inquiry (p. 34) is being emulated by France (p. 36).

We report the preliminary proceedings of the International Opium Conference at The Hague (p. 58).

Mr. W. P. Evans (Liverpool) has been elected President of the Drug Club, and Mr. T. E. Lescher Secretary (p. 57).

The Finance Bill was to have been discussed in Committee of the House of Commons on Thursday, but was postponed (p. 45).

We gather from the General Medical Council report that the new British Pharmacopœia will not be published until 1913 (p. 54).

The Board of Trade is endeavouring to stop the registration of surnames as trade-marks. Mr. Justice Joyce is hearing two cases (p. 38).

Papers on the estimation of essential oils in spices and on extract of male fern were read to the Society of Public Analysts this week (p. 58).

Trade and Market Matters.

Market changes are numerous; they include an advance in bayberry, copper sulphate (prompt), lactic acid, sandalwood oil, Japan wax; copaiba, jalap, opium, and wahoo-bark are firmer; easter and eod-liver oils, lycopodium, saffron, cinnamon-chips are easier; quicksilver, mercurials, clove oil, cocoa-butter, and Para tonka beans are lower (p. 59).

ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

The Warrington Town Council have granted a poison-licence to Mr. A. Meakin.

Mr. J. W. W. Openshaw, chemist and druggist, of 7A Euston Road, Morecambe, was, on December 2, granted the transfer of the wine-licence held by his father, the late Mr. G. H. Openshaw.

The Croydon Guardians have appointed Dr. D. Y. Buchanan, M.B., of Glasgow, Assistant Medical Superintendent in succession to the late Dr. Dillon, and Miss Lilian Harvey, of Lewin Road, Streatham, non-resident dispenser at the Croydon Union Infirmary.

In the "Borough Guide" just issued under the auspices of the Haverfordwest Town Council, reference is made to the enterprise of Mr. F. D. Phillips, chemist and druggist, in improving the Castle Square corner and the approach to High Street, Haverfordwest, by his new block of premises. The "Guide" states that the new buildings are equal to anything of the kind in South Wales.

The Middlesex Medical Officer (Dr. C. W. F. Young) in his quarterly report states that of seven formal samples of prescriptions analysed four were incorrectly compounded. One was 16 per cent. deficient in magnesium sulphate, and another 10 per cent. deficient in magnesium sulphate and 58 per cent. deficient in sulphuric acid. The other two contained 123 per cent. and 137 per cent. excess of magnesium hydroxide respectively.

An explosion occurred at the pharmacy of Mr. W. T. Dawson, chemist, 74 and 76 Prince of Wales Road, Norwich, on the afternoon of November 30. The iron cover of the electric-light distributing-box on the pavement outside the shop was hurled into the air about 4.45 p.m. and came down with a terrific crash, fortunately striking no one. Mr. Dawson, on rushing into the cellar, found the gas-meter and the service-pipes all aflame. He promptly extinguished the fire with buckets of water.

A demonstration was given on December 5 by the Anti-Window-steaming Co., Ltd., at 52 Gracechurch Street, London, E.C., of their device for preventing the steaming of windows. This consists of a fan-shaped current of air from a centrifugal blower playing close to the window. The patent consists of the oyster-shaped nozzle which distributes the air evenly over the window-surface. This is effected by graduation of the slit-like aperture, which is larger at the sides than at the top. Demonstrations with artificially steamed windows showed that the invention quickly removed the condensed vapour. Ribbons attached to the surface (12 ft. by 10 ft.) showed that the air-current was effective even at a long distance from the nozzle.

Royal Institution.

In commemoration of the completion of a term of office as Fullerian Professor of Chemistry at the Royal Institution of the same duration as Faraday, Professor Sir James Dewar has defrayed the cost of re-decorating the historic lecture-theatre at the Institution. For this he has received a special vote of thanks from the Board of Management. Mr. W. Bateson, M.D., F.R.S., has been appointed Fullerian Professor of Physiology for a term of three years. At the annual meeting on December 4 Professor W. C. Brögger (Christiania), Geh. Rath Professor T. Curtius (Berlin), Professor P. A. Guye (Geneva), and Geh. Regierung Rath Professor H. Rubens (Berlin) were elected honorary members of the Royal Institution. The lecture arrangements at the Royal Institution before Easter include: Dr. P. Chalmers Mitchell, a Christmas course of six illustrated lectures on "The Childhood of Animals"; Mr. W. Bateson, six lectures on "The Study of Genetics"; Professor E. G. Coker, two lectures on "Optical Determination of Stress and some Applications to Engineering Problems"; Professor A. M. Worthington, two experimentally illustrated lectures on "The Phenomena of Splashes"; Professor Sir J. J. Thomson, six lectures on "Molecular Physics." The Friday evening

meetings will commence on January 19, when Professor Sir James Dewar will deliver a discourse on "Heat Problems."

Secret Remedies Inquiry.

"The Standard" of December 1, in the course of half a column on the proposed Select Committee to inquire into this subject, quoted from an interview with Mr. Sigismund Kutnow, who stated that many proprietors would welcome a Committee of Inquiry, and added:

"Personally, I should certainly do so. If such a committee finds that any vendor is fraudulently deceiving the public and punishes that vendor, it would be beneficial both to the public and the trade. The public would be guarded against spending its money on useless or harmful nostrums, and the trade would reap the advantage by the elimination of such vendors, increasing public confidence in those who sold valuable medicines. But I think a business which is a subject of inquiry should certainly be represented on the Committee. If the opponents of such medicines are nominated, and the proprietors are not, it will be like a jury that has been selected by the plaintiffs. And then what chance would the defendants stand? Let me give you an instance of what I consider a gross injustice. It has been suggested that a law should be passed making it compulsory for each proprietor of a patent medicine to put the formula of the compound on every packet or bottle. Now, could anything be more unfair? Personally, I should suggest that if anything of the kind were contemplated, the Government might make it a law that the formula of every patent medicine should be sent to an official, who should be pledged to secrecy."

"The Standard" also published on December 2 an interview with Mr. South, of Steedman's, and the "director of a company which supplies a commodity known in every household," who pointed out that the revenue from the sale of medicine stamps represents a sale of 50,000,000 packets and bottles every year, and he suggested that this enormous sale is proof of a genuine and continued public demand.

Birmingham Notes.

Sir Thomas Barclay and Mr. George Cadbury have been appointed members of the committee of the Bishop Gore Memorial Fund.

At a meeting of the City Council on December 5 on the agenda-paper the following appeared:

"To receive report from the Public Works Committee that an offer from Messrs. Boots (Western), Ltd., to purchase the surplus land at the corner of Colmore Row and Bull Street for the sum of 15,000*l.* be accepted."

This is a very commanding site looking north down Snow Hill and opposite the Great Western Railway station; to the left Colmore Row, with its grand shops and hotel and Mr. Smith's pharmacy; to the right Steelhouse Lane, with the Hospital for Women and Children and the great General Hospital; and south towards Bull Street, with the premier retail pharmacy almost in view. The site has had a somewhat chequered history. A brewery offered £20,000 for it, but the public conscience was offended at the thought of this use, and the matter remained in abeyance until now.

Contracts.

Salford Town Council.—Tennants & Co., for the supply of about 1,700 tons of sulphuric acid, at 40*s.* per ton.

London County Council.—For disinfectants: Sanitas Co., Ltd., 143*l.*; Burt, Boulton & Haywood, Ltd., 30*l.*; Jeyes' Sanitary Compounds Co., Ltd., 5*l.*; J. W. Kitson, Poplar, 98*l.*

Metropolitan Asylums Board.—Barrett & Elers, Ltd., for carbonic-acid gas; Bovril, Ltd., Liebig's Extract of Meat Co., Ltd., Brand and Co., International Plasmon, Ltd., and Mellin's Food, Ltd., for meat-extract.

Liverpool Notes.

The singers at the Lord Mayor's reception on November 30 included Miss Hilda Cragg James, daughter of Mr. W. Cragg James, chemist, Argyle Street, Birkenhead. The dainty songs by this talented lady were highly appreciated.

The Liverpool Corporation have granted permission to Messrs. Evans Sons Lescher & Webb, Ltd., to construct an overhead gangway or bridge across Seel Street, connecting their present premises on the north-east side of

the street with the new building they propose to erect on the south-west side of the thoroughfare.

The Liverpool City Council Health Committee recommended the appointment of Mr. William Henry Roberts, M.Sc., F.I.C., as City Analyst, in succession to Mr. W. Collingwood Williams, B.Sc., F.I.C., and as official agricultural analyst, at a salary of 600*l.* per annum; and that Mr. Ernest Gabriel Jones, M.Sc., F.I.C., be appointed chief assistant and deputy agricultural analyst at a yearly salary of 400*l.* The appointments are to commence from January 1, 1912.

Masonic.

At the quarterly commemoration of the Grand Lodge of England, held at the Freemasons' Hall, London, on December 6, W. Bro. Henry J. Dalgleish, P.M. 39, who for many years represented Messrs. Ford, Shapland & Co. in the West of England and South Wales, was re-elected one of the twelve members of the Board of Benevolence of Grand Lodge.

The London Mayors' Lodge of Freemasons, No. 3550, was consecrated at Freemasons' Hall, Great Queen Street, E.C., on Monday, December 4, by V.W. Bro. Sir E. Letchworth, F.S.A., Grand Secretary. Among the founders of the Lodge are Mr. Henry Potter, L.R. (Potter & Clarke, Ltd.), Mayor of Stepney, who is Senior Deacon; Mr. J. R. Brough (Lewis & Burrows, Ltd.), ex-Mayor of Stoke Newington; and Mr. Charles E. Fox, Ph.C., ex-Mayor of Bethnal Green, who is Treasurer of the Lodge. The members and their guests afterwards dined together.

Sheffield Notes.

The appointment of Mr. E. E. Richards, chemist and druggist, as dispenser to the Ecclesall Guardians has been confirmed by the Local Government Board. Mr. Richards is the Union's first dispenser.

A Bohemian concert held last Saturday under the auspices of the National Poor Law Officers' Association (of which Mr. G. T. W. Newsholme is a patron) was a pronounced success, between five and six hundred people being present.

A Tricycle Thief.

Messrs. Baiss Bros. & Stevenson, Ltd., of Bermondsey, London, S.E., inform us that they desire to warn the drug-trade in regard to someone who is stealing tricycles. One belonging to Messrs. Baiss Bros. was stolen outside Messrs. Oppenheimer's establishment in Queen Victoria Street while the boy went in to leave an order. The carrier tricycle was found afterwards at Marylebone.

From Various Courts.

At Bolton on December 1, James Gordon, of Manor Street, Bolton, was remanded on a charge of obtaining money by spurious imitations of "Peps."

Thomas William Stewart (28), who was described as an analytical chemist, was sentenced to three months' imprisonment at the Leeds Assizes on December 5 for blasphemy.

At Blackwood Police Court on December 1, Alice Thomas obtained a separation order from her husband, Thomas Francis Thomas, chemist, Cwmfelinfach, on the ground of cruelty. The Bench ordered defendant to pay 1*l.* weekly to her, two guineas costs, and court fees.

At Guildford recently, Josephine Ladent and Charles Regina, *alias* Charles Arnold, both of London, were each sentenced to two months' hard labour for attempting to obtain 19*s.* 3*d.* by "ringing the changes" on an assistant at the pharmacy of Mr. W. S. Taverner, chemist and druggist, 129 High Street, Guildford.

At North London Police Court on December 5, Fredk. Henry Seddon (39), district insurance superintendent, was remanded on a charge of wilfully murdering Eliza Mary Barrow, who resided at his house in Tollington Park, London, N., by poisoning her with arsenic. The allegations against accused, who, it is stated, had business transactions with deceased, including payment of an annuity in consideration of transfer of properties to him, follow upon the recent exhumation of Miss Barrow.

At the Kent Assizes last week, Archibald Westropp Weir (30), insurance agent, was indicted on a charge of unlawfully procuring certain poisons named oil of pennyroyal, and other noxious drugs, with intent to procure miscarriage of a certain woman named Daisy Jeffery, at Tonbridge, between February 8 and September 6. Weir

was also charged with supplying poison, with inciting Jeffery to administer poison to herself, and with unlawfully attempting to administer the pennyroyal with intent to procure miscarriage. Evidence having been given by Daisy Jeffery and Detective Hazelden, Dr. Wm. H. Huntley, lecturer in chemistry at St. Bartholomew's Hospital, London, and Dr. H. J. Manning Watts, of Tonbridge, deposed that essential oil of pennyroyal was a poisonous substance, the latter also stating that in large doses it would procure abortion. Saltpetre in large doses was an irritant. The jury found Weir guilty on all four counts. The Judge sentenced him to twelve months' imprisonment with hard labour.

IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Mr. A. T. Bennett, M.P.S.I., has removed to larger premises at 14 High Street, Kilkenny.

Michael Doherty was found guilty, at Belfast on December 2, at the Ulster Winter Assizes, of feloniously administering poison to Marcus Price, his employer, near Ballycastle, co. Mayo. Sentence was postponed.

Mr. W. J. Gibson, registered druggist, King Street, Belfast, has been appointed hon. secretary and member of committee and representative of the Central Council of the Windsor Ward Committee to the Belfast Citizens' Association.

At the Ulster Winter Assizes in Belfast on December 2, Denis Magill pleaded guilty to obtaining 10*s.* by false pretences from Mr. Shaw, druggist and sub-postmaster, Grosvenor Street, Belfast, on June 27. He was sent to gaol for four months.

The Antrim County Council have accepted the resignation of their analyst, Mr. R. F. Blake, and the question of his successor has been referred to the Finance Committee. Mr. Blake intimated that he does not consider the scale of fees commensurate with his duties and status.

At a meeting of the Belfast and North of Ireland Vintners' Association on December 4, a letter was read from the Board of Customs and Excise declining to accede to the request of the Association to impose further restrictions on the sale of methylated spirit. The Association decided to press the matter further, owing to the increasing use of methylated spirit as a beverage.

The report on the imports and exports at Irish ports for 1910 just issued by the Department of Agriculture states that "the total value of chemicals, drugs, fertilisers, and dyestuffs imported in 1910 is estimated at 1,209,538*l.*, as compared with 1,123,147*l.* in 1909. In the case of drugs and chemicals, goods of this class are frequently sent in small consignments, and the figures, both of quantity and value, are in all probability considerably lower than the actual quantities and values imported."

Messrs. John Blair & Son state that they were invited by the committee of the Cork Medical Benefit Association "to tender for the supply of medicine to its members for the year 1912," and have been informed that their tender was not accepted, though it was 20 per cent. below any other tender. The letter has brought a reply from Dr. D. Donovan, the Secretary of the Association, who states that the difference in the tenders was more apparent than real. The contract has been held by Mr. Fielding, Ph.C., for fourteen years.

Medical Benefit.

Mr. Robert Campbell, on behalf of the committee of the Chemists' and Druggists' Society of Ireland, has written to Mr. Redmond stating that at a meeting of the Society, held on November 30, it was unanimously the opinion that in view of Ireland being largely an agricultural country, and having already the dispensing system of medical relief, it would not be beneficial to reinstate the medical clauses, especially in view of the inequality of the benefit to be derived by the labourer, with his small wage, as compared with the artisan, with his much higher income. The Society request Mr. Redmond to stand firm in the attitude he has taken.

SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Mr. Walter Hall, High Street, Wooler, is applying for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

Mr. John Paterson Thomson, chemist and druggist, Penicuik, has been appointed a Justice of the Peace for Midlothian.

Mr. James Russell, chemist and druggist, Nethergate, Dundee, has been on the sick-list for a fortnight, but has again returned to business.

Aberdeen.

Lieutenant-Colonel J. A. Horton, chemist and druggist, was congratulated on December 2, at the opening of the commodious new drill-hall of the Bucksburn Company of the 6th Territorial Battalion Gordon Highlanders, on the part he had played in its erection, which was principally through his efforts. Mr. Horton has been in business at Bucksburn for thirty-six years. He attained the rank of Lieutenant-Colonel in the 4th Volunteer Battalion Gordon Highlanders before retiring, and is now in command of No. 1 Company "National Reserve," which numbers 326 at present, being nearly half the total strength in the County of Aberdeen. Colonel Horton, who is already the possessor of the Victoria Decoration and long service medal, was presented at the conclusion of the ceremony with the Coronation medal, 1911.

Edinburgh.

Mr. Hutcheon is closing his pharmacy in the Canongate.

A new pharmacy is to be opened shortly not far from Liberton, the proprietor of which is in business in the Warrender Park district.

Mr. C. M. Spence, Linlithgow, has acquired the business of the late Mr. Peter Wilson, dispensing chemist, 11A Causewayside, Edinburgh.

The business of Messrs. James Scobie & Son, pharmacists, 38 Shandwick Place, Edinburgh, has been purchased by Boots Cash Chemists, Ltd., who carry on business a few doors further west.

Mr. Kenneth McLennan has sold his business at 73A Gilmore Place, to Mr. Harper, formerly assistant to Mr. Robert Nicoll, 8 Roseneath Street, and more recently an assistant in St. Andrews.

Locally, the would-be suicide does not trouble the pharmacist often. With true Caledonian economy, even within measurable hail of death, he hies him to the Dean Bridge to do the deed at lowest cost. The Town Council has decided that the bridge has gained sufficient notoriety now, and a parapet will shortly be added to the structure.

"A TERRIBLE SITUATION" is depicted by Mr. A. T. Smith in a sketch in "Punch" of December 6. A dyspeptic-looking individual sits horror-stricken in a comfortable chair—he has dropped his briar on the floor. We are told: "This gentleman has 'done with doctors,' and is subscribing to 'Everyone his own Medicine-man' in fortnightly parts. He has just discovered that he has all the symptoms (and more) of lumbago, when the instalment ends, and he must wait a fortnight for the cure."

TELEPHONE DIRECTORIES.—Mr. Rex Blanchford, pharmacist, Wimbledon and Richmond, sends us a copy of the new edition of his Richmond telephone directory, which embodies the latest alterations in local telephone numbers. We note a new design for an advertisement of Mr. Blanchford's pharmacies. This consists of a square design with a diagonal band, the upper and lower spaces being devoted to characteristic views of Wimbledon and Richmond and the band for Mr. Blanchford's name. The same design on a small scale is employed as an address-label, and with the diagonal band left blank forms a label which can be applied to various fancy articles, the name of the preparation being added by means of a rubber stamp. The Wimbledon Directory is a similar publication, covering the district round Mr. Blanchford's Wimbledon pharmacy.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

FRENCH DELEGATE FOR NEW YORK.—At the last meeting of the Council of the University of Paris, it was announced that M. Cabrié, Professor at the Paris Faculty of Sciences, would represent that body at the Eighth International Congress of Applied Chemistry, to be held in New York in September 1912.

DUTY ON TERPENELESS OILS.—A French Customs circular notifies that the Departments of Commerce and Finance have decided that terpeneless essences shall pay Customs duty on the basis of the quantity of non-deterpated essence which they represent. The circular also indicates, with regard to the essences most commonly imported (lemon, sweet and bitter orange, bergamot, lavender, mint, petit-grain, and rosemary), the proportion of the concentrated to the non-concentrated essence which is to serve as basis for the assessment of duty.

CONTES D'APOTHECAIRE.—The article published by M. Dupont-Ferrier in the "Figaro's" weekly literary supplement under the semi-punning title of "Contes d'Apothicaire" ("conte" signifies "story," while "compte," which is pronounced in the same way, means "bill"), if not flattering to the profession, is light and entertaining and instructive in its own way, calculated as it is to remove the prejudices of those who imagine that puffing, substitution, adulteration, and quackery generally are the peculiar products of a comparatively recent period of civilisation.

THE BEVERAGE OF THE GODS.—One associates hydromel rather with the Scandinavian deities or the ancient Gauls than with modern Paris, but that the famous beverage is still manufactured and drunk is manifest from a circular recently issued by the French Excise. "Hydromel is admitted on the same conditions as cider" (8d. for 100 litres), "but veritable hydromel only—i.e., the fermented product of bee honey in water. Beverages containing other saccharine substances (sugar, molasses, glucose, etc.) will not be admitted as hydromel, even if honey constitutes the principal ingredient."

PROPRIETARY MEDICINES BEFORE PARLIAMENT.—When Article 70 of the French Budget came before Parliament here last week and 135,500*fr.* (5,420*l.*) were asked for the inspection of medicinal and hygienic products and mineral-waters, M. Barthe, the new elected Pharmacist Deputy of the Hérault Department, rose to protest against the present position of pharmacy inspection. Pharmacists, he said, had waited three years for the application of the law of June 25, 1908. The inspectors were to assure the Law of Germinal. Article 32 of this law forbade secret medicines, but nothing had been done to prevent their sale; the law was ignored. He asked the Minister of Agriculture, whose province it is, what steps he proposed to take to insure the application of the law. Manufacturers and dealers of all classes who sell articles, which are often adulterated and too often harmful, by means of advertisement, should be placed under legal control. The Minister of Agriculture replied that the honourable member was fully aware of the delicacy of the question he had raised. He (the Minister) thought that Paragraphs I. and II. of Article 2 of the law of 1905 would be sufficient to regulate the commerce in question. M. Barthe would be aware that a committee was studying the matter. The Government hoped that a solution would shortly be arrived at; in any case, pharmacists might rest assured everything would be done to expedite matters. M. Barthe thanked the Minister. He drew his attention to the different manner in which a secret remedy is treated in France and abroad. In France no formula is exacted, and public credulity is often duped by a false declaration. But, if exported, the Government obliges the same manufacturer to give his formula. Control is, therefore, possible for export, and the foreign patients are guarded against remedies which lived only by advertising. He knew the question is delicate. But laws should be respected. If the existing laws are inapplicable, then others should be framed. "Protect us definitely," he concluded, "against proprietary medicines. All articles sold come under the action of the law. Why not apply the law to secret remedies. They are the most dangerous."

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

The Union.

ANOTHER INSECT-PEST.—South Africa is confronted with another pest, the San Jose Scale having been spreading slowly but surely since 1907. According to expert evidence the situation is desperate, and it is stated that 100,000% will not be enough to fight it, although 2,000% would have completed its eradication in 1908.

Cape Province.

THE REPRESENTATIVES of Messrs. Southall Bros. & Barclay, Ltd., and Messrs. C. J. Hewlett & Sons, Ltd., were in Cape Town when the mail left.

CAPE MEDICAL COUNCIL.—At the monthly meeting, held on November 7, it was resolved that the Government be respectfully asked to communicate to the Medical Councils details of the proposed Medical Bill before it is gazetted.

MESSRS. PETERSEN, LTD., manufacturing chemists, Cape Town, Johannesburg, and elsewhere, have issued a notification to the effect that Mr. Harry Evans, who was a director of the company, is no longer associated with it. Mr. D. K. Petersen, governing director of Messrs. Petersen, Ltd., has returned to Cape Town, after spending some time in the Transvaal and Orange Free State in the interests of the company.

THE CAPE TOWN PUBLICITY ASSOCIATION held a meeting just before the mail left. Cape Town has been asleep, and this Association is trying to wake her up. Trains to the docks now run on a Sunday, and passengers from steamers can land and buy fruit, etc. The Customs officials seem to have an idea that every passenger is going to take Table Mountain away, while the railroad officials also put difficulties in one's way. The Publicity Association is now trying to alter this.

WHAT IS PRACTISING AS A DENTIST?—An appeal by John Vlotman was heard in the Supreme Court, Cape Town, on November 14 from a decision by the Oudsthoorn Magistrate convicting him of practising as a dentist without a licence. For the appellant it was contended that the making of false teeth did not constitute practising as a dentist. The Attorney-General, Mr. Gardiner, argued that once a dental mechanic came into contact with a patient he practised as a dentist, that not being mechanical work. The appeal was dismissed.

Natal.

BUSINESS CHANGE.—Mr. R. F. Dobie, the only chemist at Harding, is leaving that town to set up in business at Matatiele, in East Griqualand. Mr. Dobie has been at Harding eight years.

ALLEGED STRYCHNINE-POISONING.—At the magisterial inquiry begun on November 9 relative to the death of Mr. St. George Arbuthnot, of Maritzburg, it was stated that an assistant to a well-known firm of local chemists had dispensed strychnine in cachets for deceased instead of quinine. The district surgeon, in his evidence, stated that in his opinion death was due to strychnine-poisoning. The inquiry was adjourned.

Orange Free State.

THE FISH-PRESERVATION ORDINANCE of 1911 provides penalties not exceeding 20%, or not more than six months' imprisonment, for persons found killing fish by explosives or poisons. The maximum penalty for fishing on Sunday is 5*l.*, or three months' imprisonment.

O.F.S. MEDICAL AND PHARMACY COUNCIL.—At the monthly meeting held on November 10, the President (Dr. Ward), Drs. Bidwell, de Kock, Manning, Pretorius, Tomory, and Usmar, Mr. Whiteside (dental representative), and Messrs. Fowlie and Hewitt (pharmaceutical representatives) were present. The President having ruled that Dr. de Kock's motion to review the Council's action of May 12 was in order (*C. & D.*, November 18, index folio 737), Dr. de Kock, after apologising for his absence from the last meeting, said he brought the matter forward for two reasons: the Council had established a dangerous precedent, and medical prac-

tioners and chemists and druggists who had been registered were placed in an anomalous position. Dr. de Kock reviewed the incidents, and said he was of opinion that the registrations had been illegally effected because the Council is the only body that could effect registration legally. The Council should be very jealous of its rights. He considered that the Council's action in confirming the illegality was itself illegal. Dr. de Kock also read a legal opinion confirming his view. He therefore proposed that the meeting should stand adjourned until the persons registered had been communicated with, in order to enable them to realise their position as not being duly registered. The precedent should be removed at once. Otherwise the Council might be called upon at any time by the Minister of the Interior to enforce any suggestion he liked to make. Dr. Manning seconded the motion. Dr. Bidwell moved that the Council pass on to the next item on the agenda. Dr. Tomory seconded. The latter motion was carried, Drs. de Kock, Manning, and Usmar voting in the minority.

COLONIAL AND FOREIGN NEWS.

THE PROVINCIAL AUTHORITIES of Utrecht, Holland, have decided to erect a pharmaceutical laboratory at Catharijnesingel, at a cost of 198,000 gulden (16,500*l.*).

ITALIAN DUTIES ON TURKISH PRODUCE.—Rates of Customs duty (higher than those prescribed by the Italian "general" tariff) have been imposed by Italy on the undermentioned goods when of Turkish origin, while other Turkish products and manufactures are now subject to the rates of the "general" tariff: olive oil, liquorice-root (not powdered), certain gums and resins, woods, roots, barks, and fruits, linseed, sesame-seed, earthnut-seed, etc.

BELGIAN PHARMACISTS HONOURED.—Mr. A. Martin, President of the Association Générale Pharmaceutique de Belgique, has been promoted an officer of the Order of Leopold, of which Order he was created a Chevalier in 1897. The following have been created officers of the Order of the Crown: MM. V. Haazen, V. Thimister, A. Gillon, F. Paternoster, A. De Cock, H. Claes, and J. Buedts. MM. G. De Letter and A. Borremans are made Chevaliers of the same Order. M. V. Merland has been elected an officer of the Academy. A banquet, under the auspices of La Nationale Pharmaceutique, has been held at Antwerp to celebrate the event.

FINE CHEMICALS IN RUSSIA.—The effect of the stringent entry-conditions of branded chemicals into Russia and the rules laid down by the Medical Council has been to encourage the manufacture of imitations of most of the well-known brands of fine chemicals. Messrs. Widenmann, Broicher & Co. call our attention to an article by Professor B. J. Slowzow which appears in the "Russian Official Medical Almanac," and which gives the result of an examination that has been made of the imitation products offered in Russia at the present moment. The chief articles dealt with are aspirin, diuretin, euquinine, pyramidon, tannalbin, thiocol, and urotropine. Professor Slowzow gives analyses of the Russian products, and shows by comparison that most of them are comparatively worthless as medicinal agents.

DUTCH CUSTOMS EXEMPTIONS.—The following articles, on importation into the Netherlands for use in manufacture, are to be exempt from import and Excise duties: Pyrolignite of iron, pyrolignite of aluminium, acetate of aluminium, acetyl chloride, and monochloroacetic acid. A like exemption is to be granted in respect of similar liquids (to be designated by the Minister of Finance), prepared with vinegar or wood-spirit, and destined exclusively for use in manufacture under certain conditions. Vinegar and wood spirit of a strength of at least 30 grams of anhydrous acetic acid per litre are to be exempt when imported for use in the following industries: The manufacture of acetate of amyl, chemical and pharmaceutical products, electric incandescent lamps, pyrolignite of iron and similar mordants, vanillin, butter, glass, cheese, sugar of lead, white lead, and matches, and for use in tanneries and textile dyeing or washing works.

LEGAL REPORTS.

TRADE LAW.

Medical Attendance.—In the case of *Corbin v. Stewart*, decided by Mr. Justice Scrutton in the King's Bench Division on November 30, the plaintiff sued for the balance agreed to be paid to her by the defendant for her husband's practice as a medical man, also for board and lodging and other items. The defendant counter-claimed *inter alia* for 60*l.*, fees for medical attendance on the plaintiff's children. There was a good deal of evidence in discussion in regard to the right of the defendant to charge a doctor's widow for professional attendance, and in the course of his judgment for the plaintiff his Lordship said he was quite clear that, although it was not a binding custom, there was a very general practice among medical men, to their honour be it said, not to charge the widow and children of a deceased medical man for attendance shortly after his death. He need not go further than that.

Ammonia Alkali.—At the Leeds Assizes, before Mr. Justice Phillimore, *E. G. Jepson & Co., drysalts, Leeds, claimed damages from Arthur Ashworth, chemical manufacturer, Bury, for an alleged breach of contract in regard to the sale of ammonia alkali.* From the evidence for the plaintiffs, it appeared in May 1909 they agreed to sell to the defendant 1,650 tons of pure light ammonia alkali (58°), equal to 93 per cent. of carbonate of soda, to be delivered 150 tons over 1909, 500 tons in 1910, 500 tons in 1911, and 500 tons in 1912. Deliveries were made from time to time, but the defendant had only accepted 112 tons. Further evidence was called to show that the alkali was up to the standard, and that it was impossible to manufacture it absolutely pure. It was admitted that the first deliveries had a slight tinge of colour, but it was said that this was not discernible when the crystals were dry, and did not interfere with its usefulness in bleaching. The defendant, in evidence, said he complained to the plaintiffs that the deliveries were of inferior quality, and were causing him considerable trouble. He found that the alkali contained impurities and had a bad colour, which made it unsuitable for the purpose for which it was required. The jury returned a verdict for the plaintiffs, assessing damages at 434*l.*; but on the application of Mr. Waugh, K.C., counsel for the defendant, his Lordship granted stay of execution, on condition that the damages were paid into Court within fourteen days.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

"NUGGET" TRADE-MARK.

In the Chancery Division on Tuesday, December 5, Mr. Justice Neville had before him an action by the Nugget Polish Co., Ltd., against the Harboro Rubber Co., of Market Harborough, Leicester, to restrain an alleged infringement of trade-mark in the word "Nugget" and device. Mr. Walter, K.C., for plaintiffs, said the action had reference to the application by the defendants of the word "Nugget" to rubber heels for boots and shoes. In 1900 the plaintiffs were the owners of the registered trade-mark 227,378, which consisted of the word "Nugget," together with the device of a nugget underneath it. That trade-mark had been used throughout by the plaintiffs. Plaintiffs discovered that defendants were using an advertisement with the word "Nugget" and a device identical with that used by plaintiffs for years. Counsel said the defence was that the defendants had a widely extended reputation for rubber heels, and that they had never sold "Nugget" heels without the word "Harboro'." They also said that several rubber companies had used the word "Nugget" for many years without interference by plaintiffs. Counsel said that, whatever these companies might have been doing, the plaintiffs knew nothing about it, or they would immediately have issued a writ.

Evidence was then called and the hearing was still proceeding on Thursday.

CLAIM BY CAPSULOIDS.

The case of Capsuloids, Ltd., *v. Duncan Flockhart & Co.*, arising out of a contract dispute, was mentioned before Mr. Justice Darling in the King's Bench Division on Wednesday, December 6. His Lordship asked if it was a case which should be tried before a jury.

Mr. Mitchell Innes, K.C., for the defendants, replied that he thought it was. It was not a complicated case.

His Lordship: But I see there are hundreds of particulars. They will each have to be gone into, I suppose? Mr. Mitchell Innes said he did not think it would be necessary.

His Lordship: I think it is very likely it would be on a question of damages.

Mr. Colam, junior counsel for the plaintiffs, said he could not pretend that he might not have to go into these particulars.

His Lordship: I think it is a proper case for an official referee.

Mr. Colam said he must confer with his leader, Mr. Clavell Salter, K.C.

A little later Mr. Salter informed his Lordship that the case was one not only of detail but also of technical detail. His clients had instructed him to say that in view of his Lordship's expression of opinion they were prepared somewhat reluctantly to raise no obstacle to the matter being tried by an official referee.

Mr. Mitchell Innes consented to this course, and the case was referred to the official referee. It was afterwards agreed that Mr. Muir Mackenzie should take the case, and he arranged to take on Thursday the evidence of a witness who has to return to Germany.

This was by Dr. Flimm, of E. Merck's, Darmstadt, who deposed that his firm had supplied plaintiffs with hæmoglobin since 1898, witness having charge of this department. The hæmoglobin was always the same. At the request of Dr. Dixon, however, the article was at a certain period supplied in the form of a finer powder, but such finer powder was obtained by passing the article through a fine sieve, the process of manufacture not being altered at all. It had no influence whatever on the quality. The normal quantity of water, witness added, was from 7 to 10 per cent. Questioned by Mr. Colam as to the impurities, Dr. Flimm said that he could give no evidence on that point, as it was a trade secret. The article had always been prepared in the same way and the impurities were always in the same proportion. Drying on glass was one of the processes by which the powder was made from the liquid. It was heated at a temperature of 100° until there was no longer any loss of weight.

SURNAMES AS TRADE-MARKS.

A point of considerable general interest under the Trade-marks Act, 1905, was raised before Mr. Justice Joyce in the Chancery Division on Wednesday, December 6, when *R. J. Lea, Ltd., tobacconists, Manchester, moved for an order directing the Registrar of Trade-marks to proceed with the registration of the name "Boardman's" for manufactured tobacco.* The application was opposed by the Board of Trade, and the importance attached to it by that body was evidenced by the fact that it was represented by the Attorney-General, the Solicitor-General, and Mr. Sargant.

Mr. Hughes, K.C. (with him Mr. Sebastian), for the applicants, explained that the new point raised in this case was whether surnames could be registered as a trade-mark. Since the Act of 1905 a large number of surnames had been registered as trade-marks; he had a list of over eighty of them, but now the Board of Trade had taken the view that they ought not to be registered, and in consequence this application and others had been referred to the Court for consideration. Counsel pointed out that in this case, "Boardman's" was not the name of the manufacturer, or of any merchant who sold that smoking-mixture, but was in a sense a fancy name, being the name of a Manchester publican of forty years ago, who was a connoisseur of tobacco, and for whom Mr. Lea, the predecessor of the applicants, originally made this special mixture.

The Attorney-General denied that because applicants had a common law right in the name they were entitled to have it registered as a trade-mark. It was an entire misconception of the provisions and policy of the Trade-marks Act, 1905, which drew a broad distinction between every other distinctive mark and marks in which a name formed part. The question really was, must every other "Boardman" coming into the trade distinguish his goods from those of the applicants who were seeking to register this name, and thereby cast an intolerable burden upon or shut out everyone of the name of Boardman existing now or in the future from selling tobacco in a name legitimately his own.—The hearing was adjourned.

On Thursday Mr. Sargant addressed his Lordship in further opposition to the application, and Mr. Hughes replied for the applicants.

His Lordship reserved his judgment till an application by Wm. McEwan & Co., brewers, of Edinburgh, asking for the registration of their surname as a trade-mark for their beers, had also been heard.

BANKRUPTCY REPORT.

Re Kaye, James William, 73 Manningham Lane, Bradford.—The debtor, who appeared at the Bradford County Court on December 6 for his public examination, was questioned as to a business which he established in the manufacture of indigestion-powder. He declared that his wife's claim to the business was correct, inasmuch as he sold the goodwill and the right to manufacture the powder to her two years ago for 30%. The examination was closed.

Creditors' Meeting.

A MEETING of the creditors of William Willis, chemist and druggist, Alresford, Hants, was held at the offices of Messrs. Fletcher, Head & Co., chartered accountants, 67 Bishopsgate, London, E.C., on Tuesday, December 5, when a preliminary statement of affairs was submitted showing liabilities amounting to 3,953*l.* (including estimated trade debts 505*l.*) and estimated assets of 2,974*l.* After full consideration an arrangement was entered upon whereby the debtor should pay 5*s.* in the pound, at periods agreed upon, and a trustee was appointed. The following are the trade creditors of 5*l.* and over: W. Edwards & Son (195*l.*); Wright, Layman & Umney, Ltd. (17*l.*); S. Maw, Son & Sons (38*l.*); Stephen Smith & Co. (13*l.*); Kodak, Ltd. (8*l.*); Bowen & McKechnie (5*l.*); Allen & Hanburys, Ltd. (12*l.*); Evans Sons Lescher & Webb, Ltd. (6*l.*); The British Drug Houses Ltd. (22*l.*); Southall Bros. & Barclay, Ltd. (7*l.*); Randall & Son, Ltd. (14*l.*); Loewe & Co. (20*l.*); and Finsbury Distillery Co. (5*l.*).

LIMITED COMPANIES.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

CANISTERS, LTD. (P.C.).—Capital 500*l.* Objects: To carry on the business of tin-box manufacturers, tin-plate and sheet-metal workers, etc. The subscribers and first directors are H. A. Jarman and F. M. Eastman.

ANILINE AND CHEMICAL PRODUCTS CO., LTD. (P.C.).—Capital 1,700*l.* Objects: To take over the business of chemical and aniline manufacturers carried on by F. H. Baggaley at 11 Blackfriars Street, Manchester, as the "Aniline and Chemical Products Co." The first directors are F. H. Baggaley, J. S. Hindle, and J. Thompson. R.O., 11 Blackfriars Street, Manchester.

SCIENTIFIC TRUSS, BELT, AND ELECTRIC CO., LTD. (P.C.).—Capital 100*l.* Objects: To carry on the business of manufacturers of and dealers in hernial and other trusses, remedial, curative, and other belts, artificial limbs, eyes, and medical, surgical, electro-medical, magnetic-electric, and other apparatus, etc. A. Hall is the first director, and C. Baines is the first secretary.

AMMONIUM FINANCE SYNDICATE, LTD.—Capital 200,000*l.* Objects: To acquire control of collieries in Natal, coal-deposits in South Manchuria, and peat-deposits in Florida and Italy, and to establish there ammonia-recovery gas-plants in co-operation with other capitalists. The directors are Robert Ludwig Mond, Emile S. Mond, Robert Armitage, and Robert Mathias. Large profits are anticipated, particularly from the sale of sulphate of ammonia.

Company News.

CURACHO, LTD.—To be voluntarily wound-up. Liquidator, Mr. Wm. Sullivan, 14 Queen Victoria Street, London, E.C.

APOLLINARIS & JOHANNIS, LTD.—The directors have declared an interim dividend for the six months ended September 30 last on both the preference and the ordinary shares at the rate of 5 per cent. per annum, less income-tax.

CAMWAL, LTD.—The report of the directors for the year ended September 30, 1911, states that: "The company has

earned a net profit of 2,504*l.* 8*s.* 4*d.* during the past financial year, which, with the amount of 609*l.* 2*s.* 7*d.* brought forward from last year, makes a total of 3,113*l.* 10*s.* 11*d.*, and we recommend the payment of a dividend of 5 per cent. on the preference shares, being the balance of 3½ per cent. on these shares for the year ended September 30, 1910, and 1¼ per cent. on account of the year to September 30, 1911. This would absorb 2,473*l.* 1*s.*, leaving a balance of 640*l.* 9*s.* 11*d.* to be carried forward. . . . Considerable expenditure was necessary during the past year in connection with the company's system of meeting the increasing and formidable competition of makers supplying waters direct to the public: (1) by a liberal distribution of free samples on chemists' behalf, and (2) by supplying waters direct to the public in certain districts, the local chemist having a financial interest in such sales. A considerable outlay was caused by the conversion (in the company's own syphon-making department) of some thousands of the company's older-pattern syphons. The railway strike at a busy period of the hot weather caused the company serious financial loss by delaying or preventing the delivery of goods to country chemists at a time when the demand was most active. Chemist-customers are reminded that the prompt and regular return of empty syphons is of great benefit and assistance to the company. The slackness of some members in this respect considerably hampered the company's business during the past season." Mr. H. Kemp retires from the board of directors, but offers himself for re-election. The shareholders will meet at the Restaurant Frascati, Oxford Street, London, W., on December 14 at 3 p.m. A circular issued along with the balance sheet explains the company's system of direct-supply in co-operation with chemists, and contains letters of appreciation from chemists in respect of the scheme.

CADBURY BROS., LTD.—A petition with reference to the reorganisation of the capital of Cadbury Bros., Ltd., was heard by Mr. Justice Swinfen Eady in the Chancery Division on Tuesday, December 5. Mr. Rolt, who appeared for the company, said the petition asked for the confirmation by the Court of a special resolution reorganising the capital and consolidating the shares of the company. The company was incorporated in 1899, and the capital had been increased, and as authorised was now 2,150,000*l.* Of that there had been issued 900,800*l.* The original capital was divided into first preference shares and ordinary shares of 100*l.* each—4,750 preference and 4,750 ordinary. In 1903 the capital was increased by the issue of 6,000 second preference shares and 6,000 ordinary shares, which made up the present total of 2,150,000*l.* capital. In the later issue the second preference holders were given a preference, subject to the rights of the first preference holders. His Lordship asked why further ordinary capital was created when there was plenty of unissued ordinary shares of the original capital. Mr. Rolt said he was not acquainted with the reason. The company was a private one. It had been found inconvenient to have shares of such large denomination as 100*l.*, and it was intended to issue a further part of the preference capital and to consolidate the two issues. The shares were to be divided into shares of 1*l.* and 4,750 6-per-cent. first preference shares, and the 6,000 second preference shares were to be consolidated in one class of 1,075,000 6-per-cent. preference shares of 1*l.*, and the shareholders were to be entitled in a winding-up to 25 per cent. of surplus assets. His Lordship said that put the second preference on the same basis as the first preference shares and gave them a 25-per-cent. bonus. The second preference gained everything and lost nothing. Mr. Rolt said nominally the second preference did gain. His Lordship: Was there any dissent at the meetings? Mr. Rolt: None; all classes were unanimous. His Lordship said he had looked carefully at the figures, and they corresponded with the figures in the petition. He sanctioned the scheme.

GAZETTE.

Partnerships Dissolved.

CONWAY, B. W., and RIDDALL, T. B., Overton House, Long-sight, and Birch Terrace, Rusholme, Manchester, physicians and surgeons, under the style of Conway & Riddall.
HUGHES, T. V., and BATY, E. J., Edmund Street, Birmingham, analysts, metallurgists, etc., under the style of Vaughan Hughes & Baty.

The Bankruptcy Acts, 1883 and 1890.

ADJUDICATIONS.

CAUTLEY, JOHN BURTON, Charlotte Street and Albion Street, Kingston-upon-Hull, in co-partnership with Malim Lethbridge Farmer, under the style of John Burton Cautley & Malim Lethbridge Farmer, medical practitioner.

DALE, GEORGE, Harrowby Road, Grantham, mineral-water manufacturer.

GOSS, LILLIE ADELINE (trading as Mrs. Berkeley), Old Bond Street, lately Brooke Street and New Bond Street, London, W., face specialist.

PARKER, CHARLES HERBERT, lately of Derwent Cottage, Cecil Road, Hale, and Rekrap Works, George Street, Altrincham, drysalter.

VARLEY, ARTHUR, Richardshaw Lane, Stanningley, and Bankfield Mineral-water Works, Chapel Street, Stanningley, mineral-water manufacturer.

BIRTHS.

BARNATO.—At 61 Charlotte Street, Portsmouth, on November 15, the wife of B. Barnato, Anglo-American Drug-stores, Landport, of a son.

DRYERRE.—At Bonnyrigg, Midlothian, on November 21, the wife of Henry Dryerre, chemist and druggist, of a son.

MARRIAGES.

ATKINSON—DONALDSON.—At the Church of St. Stephen the Martyr, Regent's Park, London, N.W., on December 5, J. A. Atkinson, LL.B., solicitor, Folkestone, son of Mr. J. G. Atkinson, Ph.C., Upper Norwood, London, S.E., to Agnes Mackinnon, daughter of Mr. W. Donaldson, of Dunfermline.

COUSINS — LESTER. — At Mount Pleasant Wesleyan Chapel, Leek, on December 3, by the Rev. Arthur Bourne, George Herbert Cousins, chemist and druggist, Leek, Staffs, to Maggie Lester, of Leek.

MOORE—KERR.—At 15 India Street, Glasgow, on November 24, by the Rev. John Smith, D.D., Partick, and the Rev. John M. Dickie, B.D., Rothesay, Samuel James Moore, Ph.C., of Gilmer, Moore & Chestnut, Ltd., Ballymena, co. Antrim, to Barbara Grace, daughter of Mr. John G. Kerr, LL.D.

PATTINSON. — HILL. — At Manchester Cathedral, on December 5, by the Dean, the Right Rev. Bishop Welldon, William Ross Pattinson, B.Sc., chemist and druggist, only son of Mr. Thomas R. Pattinson (Oldfield, Pattinson & Co.), of Glebelands, Bowdon, Cheshire, to Phyllis Pauline Muriel, younger daughter of Mr. Frederick H. Hill, of Thorn Hill, St. Annes-on-the-Sea.

DEATHS.

BOND.—At 3 Beaufort Buildings, Gloucester, on December 5, Francis Thomas Bond, B.A., M.D.Lond., F.R.S.Ed., F.C.S. Dr. Bond was for thirty-four years medical officer of the Gloucestershire combined sanitary district, and from 1862 to 1873 was Professor of Chemistry and Dean of the Faculty at Queen's College, Birmingham.

BRUNCK.—At Ludwigshaven, on December 3, Kommerzienrat H. von Brunck, at one time a director of the Badische Anilin und Soda Fabrik, and later President of the Board of Administration of the same company. He was largely instrumental in the successful development of the company.

GARE.—On December 1, Mr. William Gare, chemist and druggist, Newton Square, Bampton, Devon, aged eighty-five. Mr. Gare, who was a native of Chard, had been at Bampton for about forty years. He was a prominent Churchman and Freemason.

GEORGE.—On November 30, Mr. John Evan George, Ph.C., 2 St. Andrew's Crescent, Cardiff, aged seventy-three. Mr. George, who was in business at Hirwain, Glamorganshire, was recognised in the district as a widely read and cultured man.

GROSVENOR.—At his residence, "Lynwood," Clacton-on-Sea, on December 4, Mr. Clement V. Grosvenor, Ph.C.,

aged sixty nine. Mr. Grosvenor's death was sudden and was due to valvular disease of the heart. He had been in business at Westgate-on-Sea, South Kensington, and Clacton, but retired about twenty years ago. During the last five years he had been an assiduous worker for the new Church of St. James', Clacton, of which he was vicar's warden. He leaves a widow, but no children.

KIRKMAN.—Recently, Sarah Ann, widow of the late Mr. T. E. Kirkman, chemist and druggist, Wimbledon, London, S.W. Aged eighty-three.

ROBERTS.—Recently, Mr. James Casimir Roberts, chemist and druggist, in business at Victoria Place, Albion, New Brighton, Birkenhead, for forty-two years. Mr. Roberts was interred at Rake Lake Cemetery, Wallasey, on December 4.

ROFF.—A cable message has been received by Messrs. Parke Davis & Co., London, W., announcing the death, on December 5, of Mr. Chas. Roff, of Beyrou, their representative in the Near East.

ROSS.—At Middle Street South, Driffeld, Yorks, on December 5, Mr. Lewis Buttle Ross, F.C.S., chemist and druggist, aged sixty-five. Mr. Ross had a sudden heart-seizure whilst in his garden. He served his apprenticeship with the late Mr. Ombler, and started in business in Middle Street, Driffeld, in 1867. He was elected a Fellow of the Chemical Society in 1870. Mr. Ross had served on the East Riding (Yorks) County Council for over ten years. He leaves a widow and five children.

RYMER.—At Wellingborough, on November 30, after a long illness, Mr. Frederick Victor Rymer, Ph.C., of Simco & Co., 23 Market Street, Wellingborough, aged thirty-nine. Mr. Rymer, who was a native of Northampton, served his apprenticeship in that town with Mr. W. A. Holme, chemist and druggist, The Drapery. He went to Wellingborough in 1891 as an assistant to Mr. F. Simco, leaving there to study under the late Mr. Watson Will prior to taking the Minor in 1894. He passed the Major in 1896 while doing part-time and locum work. Mr. Rymer then acted successively as manager for the Exors. of Mr. S. Negus, Gold Street, Northampton, and Parke's Drug-stores at Hackney and Fulham. He left London in 1907 for Wellingborough to take over the business of Mr. F. Simco, in partnership with Mr. R. H. Robinson, chemist and druggist. Mr. Rymer's illness began with what was apparently throat-trouble early in the year, but x-ray diagnosis showed the presence of a mediastinal tumour. In August Mr. Rymer entered a nursing-home at Northampton, but his desire to return to Wellingborough was acceded to on November 9. On his return he became gradually weaker and died at the house of his partner. Mr. Rymer was a prominent Church worker, acting as sidesman at All Saints' Church. The funeral took place on December 4.



MR. F. V. RYMER.

WILLS PROVEN.

MR. THOMAS SAYERS, 20 Rugby Road, Leeds, surgical-instrument maker, who died on May 2, aged seventy-three, left estate valued at 117.

MR. ROBERT CHIPPERFIELD, Redcliffe House, Southampton, retired chemist, who died on August 5, left estate of the gross value of 79,276l. 2s. 2d., of which the net personalty has been sworn at 70,561l. 16s. 10d. Mr. Edmund Chipperfield, "the best son and the best man I have ever known," is acting executor, and power is reserved to grant probate also to the Mayor and Corporation of Southampton. The will and codicils are home-made documents, and contain many interesting clauses and a large number of bequests, varying in amount from 100 guineas to five guineas, to per-

sonal friends. The South Hants Hospital receives an annuity of 200*l.*, and a fund is left in trust to found an art school and art gallery in Southampton. His oil-paintings are left to the town with this object in view. His son Edmund is to receive an annuity of 1,200 guineas, and his daughter 300 guineas, to be increased to 1,000 guineas if she survives her brother. Mr. William Barron, Ph.C., Cheltenham, is among the legatees, a sum of 50*l.* being left to him.

BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. D. MILES EDWARD, chemist and druggist, is opening a business at 13 Bute Street, Cardiff.

MR. P. H. HORRELL, chemist and druggist, has now removed to his new premises, 52 Walsworth Road, Hitchin.

MR. H. W. DIX, chemist and druggist, late of Devizes, is opening a pharmacy at 19 Commercial Street, Pontypool.

MR. JOHN FRANK, C.C., Ph.C., has disposed of his business in Bridge Street, Whitby, to Mr. E. E. Anderson, chemist and druggist.

MR. J. C. WILLIAMS, chemist and druggist, has purchased the business formerly carried on by the late Mr. William Jones at Queen's Road, Hersham, Walton-on-Thames.

MR. E. KINGSLEY MONKS, pharmacist, 2 The Parade, Coldharbour Lane, London, S.E., informs us that he has not yet disposed of his pharmacy, as reported in THE CHEMIST AND DRUGGIST of December 2.

MR. L. HILL, chemist and druggist, who has been twenty years with Mr. Edwin Wells-Smith, chemist and druggist, of 9 Nether Edge Road, Sheffield, has been taken into partnership. The business will in future be carried on under the style of Smith & Hill.

PERSONALITIES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. ALBERT G. MORRIS left London on Friday, December 8, per s.s. *Aragon*, for Buenos Aires.

MR. JOSEPH WARD, Ph.C., Cleveland House, 29 Park Road, Gloucester, has been elected an Alderman of the Local City Council.

MR. A. BATE, chemist and druggist, Market Street, Lancaster, has been elected a vice-president of the Lancaster Chamber of Trade.

ALDERMAN C. CLAYTON, chemist and druggist, 158 Cowley Road, Oxford, has been elected a Vice-Chairman of the Oxford Board of Guardians.

MR. J. J. SHAWYER, chemist and druggist, 12 Wood Street, Swindon, has been elected a member of the committee of the local Chamber of Commerce.

MR. H. K. WOODWARD, Ph.C., 7 Bull Green, obtained the prize for the best-dressed window in the chemists' section of the recent Halifax window-dressing competition.

MR. THOMAS TYRER has been appointed along with Mr. W. F. Reid to represent the Society of Chemical Industry on the Council of the National Physical Laboratory.

MR. F. G. CURTIS, Ph.C., Folkestone, lectured on "Winter Sports in Switzerland" before the Society of Dorset Men in London at the Holborn Restaurant, London, W.C., on December 5.

AMONG the names of the Advisory Committee for the appointment of magistrates for the County of London is that of Mr. R. A. Robinson, J.P., Past-President of the Pharmaceutical Society.

ALDERMAN WILLIAM GREGORY, chemist and druggist, Weymouth, has been appointed a representative of the

Corporation on the Port Sanitary Authority and a member of the Old-Age Pensions Committee.

MR. PERCY J. ASHFIELD, chemist and druggist, Chairman of the Rhyl Advertising Association, has been appointed representative for Rhyl on the Executive Committee of the North Wales Advertising Board.

MR. S. W. BUNKER, pharmacist, elder son of Mr. C. J. G. Bunker, of Twickenham, obtained his B.Sc. degree at the recent examinations of the London University with first-class honours in chemistry.

MR. RICHARD T. SIMPSON, chemist, North Road, Lancaster, on December 4 entertained the members of the Lancaster Photographic Society by giving a lantern-lecture on "Ireland, Scotland, and the English Lakes."

MISS LUCY E. SPENCER PALMER, aged twenty-one, eldest daughter of Mr. J. Spencer Palmer, M.P.S., chemist and dental surgeon, Coronation House, Thornbury, has passed the B.A. examination of London University with honours.

MR. C. W. WALWIN, captain of the "Bath and West" College of Pharmacy Football Club, has been selected as one of the Rugby football team to represent Somerset in the match at Exeter on December 9 between that county and Devon.

MR. W. S. GLYN-JONES, M.P., was one of a large number of London and other Liberal Members of Parliament who were entertained at dinner by the Prime Minister at his official residence in Downing Street, on Thursday evening, December 7.

ALDERMAN J. PHILLIPS, J.P., Ph.C., representing the local Chemists' Association, has been appointed a member of a committee of tradesmen formed at Wigan for the purpose of fixing a uniform summer holiday consisting of three or four days.

MR. S. R. TROTMAN, Hon. Secretary of the Nottingham Section of the Society of Chemical Industry, was at a dinner on November 22 presented with a silver rose-bowl in recognition of his services. Dr. R. Messel, President of the Society, made the presentation.

MR. ERNEST W. MANN, Ph.C., F.C.S., who has charge of the analytical laboratories of Messrs. Southall Brothers & Barclay, Ltd., Lower Priory, Birmingham, has passed the Final examination for the B.Sc. degree of the London University with second-class honours in chemistry.

ALDERMAN H. POTTER and Mrs. Potter, Mayor and Mayoress of Stepney for the third time, were entertained at dinner on December 6 at the Great Eastern Hotel, Liverpool Street, London, E.C., the large company present including the Hon. Harry Lawson, M.P., and Mrs. Lawson, and Mr. Stuart M. Samuel, M.P.

MRS. JOHN C. HEWLETT, of Beckenham, Kent, youngest daughter of Mr. Samuel Storey, opened on Friday, December 1, a bazaar in support of the Monkwearmouth and Southwick Hospital. Among those who accompanied her on the platform was Mrs. Vivian Hewlett. Mrs. Hewlett had undertaken the duty at short notice in place of Mr. Hamar Greenwood, M.P., and Mrs. Greenwood. She made a happy speech, and after being thanked was presented with a bouquet by Master Bryan Thompson, the little son of Dr. and Mrs. Thompson.

MR. W. H. VENO, the originator of the well-known cough-cure, has had an adventurous and interesting career, details of which have been published by the "People's Journal." He was born in Castle Douglas in 1866, and became a post-office clerk at Garlieston, Wigtonshire. At seventeen he induced the captain of a transatlantic steamer to take him to New York as a cabin boy, but he soon quitted the sea and took to professional photography, becoming manager of a London studio before he was out of his teens. After that he acted as lecturer and assistant to a phrenologist, then again went to the United States and for two years studied at the Eclectic College of Medicine, Cincinnati, with which Professor Uri Lloyd is associated. He next toured the United States as a health lecturer; later was engaged as a lecturer on Protection, and had some experience of gold mines at Deadwood, S.D. Returning to the "Old Country" he started his cough cure fourteen years ago, and, according to the "People's Journal," 2,000,000 bottles of this are now turned out annually.

TRADE NOTES.

EUTHYMOL TOOTH-PASTE is now being advertised to the public by means of posters in the lifts and other spaces of the London underground railways. The design is effective, and Messrs. Parke, Davis & Co.'s name appears only on the figure of the tube.

MESSRS. JAGO & JEROME, 28 Canal Street, Manchester, as agents for Messrs. Péliissier-Aragon, Grasse, are issuing a price-list of the essential oils, pomades, extracts, distilled waters, and other natural perfumery products made by their principals in their factories at Grasse, and they will send a copy to any wholesale druggists or soap-makers who are buyers of these materials.

"QUICKSHAVE."—The Elite Toilet Co. (Branch of the County Chemical Co., Ltd.), Bradford Street, Birmingham, are making in this issue an announcement regarding special discount offered on opening orders. The company draw attention to the fact that chemists are losing sales of "Quickshave," this being evidenced by the large number of direct orders they are receiving through the post.

COLE'S SPIRAL SPRING TRUSS.—With reference to the note in our issue of December 2, Messrs. William Coles & Co., 5 Sackville Street, Piccadilly, London, W., wish it to be distinctly understood, especially by colonial chemists, that they are prepared to receive and execute orders for their trusses. It may also be noted that Messrs. Coles have improved upon their original design from time to time, and it is produced under the best modern conditions.

THE "PHARMACEUTICAL ERA" of New York was founded in Detroit twenty-five years ago, and it paid **THE CHEMIST AND DRUGGIST** the compliment of taking it as a model. In commemoration of its semi-jubilee, the "Era" is to publish during 1912 twelve special anniversary numbers containing contributions from leaders of American pharmacy, chemistry, and the drug-trade, particulars of which are given in an announcement in this issue. The publishers are Messrs. D. O. Haynes & Co., 82 Fulton Street, New York, U.S.A.

VALIDOL.—Several boxes of this remedy for sea-sickness were supplied by Messrs. Widenmann, Broicher & Co., 33 Lime Street, London, E.C., to the chief surgeon of the *Medina* for the use of the Royal party during the voyage to India, and they favour us with a photograph of the two handsome cases in which the remedy is kept. It is not improbable, they say, that in view of the very rough weather which the *Medina* experienced during the first days of her voyage, the chief surgeon, into whose hands the "Validol" was placed, has had opportunities of testing the excellent qualities of the preparation.

ANALYTICAL CONTROL.—An insight into the system of analytical control which is employed by Messrs. T. Morson & Son, 14 Elm Street, Gray's Inn Road, London, W.C., is given in the firm's advertisement in this issue. Each batch of chemicals that is manufactured is furnished with a reference number, but only after the batch has been analysed and found satisfactory. This reference number is affixed to each chemical sent out to customers, and in this way the identity of the substance can be traced and its analytical purity attested. The same system applies to the raw materials from which the chemicals are manufactured.

CHRISTMAS HOLIDAYS.—Messrs. S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., inform us that their establishment will be closed for the holidays from Friday evening, December 22, until Wednesday morning, December 27, and for stocktaking on Friday and Saturday, December 29 and 30. The offices of **THE CHEMIST AND DRUGGIST**, 42 Cannon Street, London, E.C., will be closed from Friday evening, December 22, until Wednesday morning, December 27. Messrs. Burroughs Wellcome & Co. also inform us that their offices, warehouses, etc., will be closed from 1 p.m. on Saturday, December 23, until 9 a.m. on Wednesday, December 27.

"WELLCOME" EXPOSURE RECORD.—The 1912 edition of the "Wellcome" Photographic Exposure Record and Diary is being published this week by Messrs. Burroughs Wellcome & Co., London. This very popular book has established a reputation on account of its convenience, and especially on account of the method of calculating exposures and the meter which are given at the end. About

fifty pages are occupied with a treatise on "Modern Photographic Methods" involving the use of "Tabloid" products; then follow the blank pages for records of exposures and the diary and memoranda pages. The book, which is covered in green cloth and is provided with pencil and clasp, sells at 1s., and if shown on the counter its usefulness as a Christmas present will be brought home to customers.

THE BRITISH JOURNAL PHOTOGRAPHIC ALMANAC, 1912, was published on December 1. It contains 1,434 pages (inclusive of advertisements), and sells at 1s. (paper cover) and 1s. 6d. (cloth). The chief literary contents are a complete treatise on "Lantern-slide Making" and an article on "Indoor and Outdoor At-home Portraiture." A most useful "Epitome of Progress" occupies 125 pages; this consists of concise abstracts of technical articles which have appeared during the twelve months up to October 20. Novelties in apparatus are dealt with in a series of illustrated trade-notes. The formulary section follows, and consists of a good collection of formulæ for developers, intensifiers, etc., as used for plates, films, and paper. A few pages are then occupied with pictorial hints on "How to do it," which beginners will find of interest. Miscellaneous information follows regarding weights and measures, solubilities, thermometer tables, and exposure methods. Photographic chemists will find that the "Almanac" commands a ready sale if displayed during the months of December and January.

MESSRS. INGRAM & ROYLE, LTD., Bangor Wharf, 45 Belvedere Road, London, S.E., have published this week a new edition of the pamphlet entitled "Natural Mineral Waters: their Properties and Uses," this being the twelfth edition. It has been revised and enlarged, and now extends to seventy-two pages. In the introduction the waters are classified according to their qualities—i.e., Aperient, Alkaline, Ferruginous, Sulphurous, Arsenical, and Lithiated—lists of table-waters and special waters being added. Then the waters are taken in alphabetical order and their therapeutic properties described, recent analyses being given in practically every case, the factors being expressed in grains per pint, a most convenient method for medical practitioners. The information thus given makes the pamphlet a work of reference for pharmacists and physicians, the requirements of the latter being also specially noticed in the index and appendix, which include concise particulars of the uses of over 200 waters. Messrs. Ingram & Royle will be glad to send a copy of the pamphlet gratis and post-free to any chemist who applies to them for it, and the applicants might at the same time ask the company for a copy of their price-list of cigars and cigarettes, which they issue at this season specially for the Christmas trade.

Institute of Ophthalmic Opticians.

A SPECIAL general meeting of the members was held at St. Bride Institute on December 6 for the purpose of sanctioning alterations in the regulations for the admission of Fellows (see *C. & D.*, November 25, index folio 792). There was a large attendance, and the chair was occupied by Mr. F. W. Bateman. The Hon. Secretary (Mr. J. Harcombe Cuff) proposed the adoption of the new regulations, and denied that the matter is being unduly rushed. It has been before the members for twelve months. Unanimity of action is absolutely necessary if anything is to be accomplished in the interests of opticians. One result of the proposals would be that in future members of the Institute and those of the British Optical Association would meet together in one central organisation.

Mr. Matthews seconded, and in the course of the discussion which followed objection was taken to the admission of those who held only the Dioptric Diploma of the B.O.A., and to the alteration which the adoption of the proposal would necessitate in the future certificate of the Institute. A referendum of members was suggested.

Mr. Matthews said that when the Institute was founded it took very wide powers to look after the progress of the trade and to secure Parliamentary recognition if possible. It was almost impossible for two examining bodies such as the Spectacle-makers' Company and the B.O.A. to take Parliamentary powers.

The Hon. Secretary said that proxy forms had been sent to all members of the Institute, and those returned were in favour of the proposals by twelve to one.

On a show of hands, the proposal of the Council was adopted by seventeen to five.

National Insurance Bill.

Passes the House of Commons.

THE Report stage in the House of Commons was concluded on Monday evening, December 4, when the last of the schedules was passed. When we went to press last week the House was still discussing the new clauses brought forward on the Report stage. At 7.30 on Thursday evening the guillotine process was commenced by the Speaker, and eighty clauses from the Committee stage were amended and passed before the House adjourned at 1.5 A.M. on Friday, December 1. All the amendments to Clause 16 (Administration of Medical Benefit), proposed by the Chancellor of the Exchequer and referred to in our last issue, were adopted. The Government also included in Sub-section 5 (iii) a reference to the Pharmacy Act, 1868, instead of deleting the reference to the Poisons and Pharmacy Act, 1908. Mr. Glyn-Jones's amendment as to apothecaries' assistants was also adopted, so that the whole sub-section now reads as follows:

(5) Every such Committee shall also make provision for the supply of proper and sufficient drugs and medicines and prescribed appliances to insured persons in accordance with regulations made by the Insurance Commissioners, which shall provide for the arrangements made being subject to the approval of the Insurance Commissioners, and being such as to enable insured persons to obtain from any persons, firms, or bodies corporate with whom arrangements have been made such drugs, medicines, and appliances as ordered by the medical practitioner by whom they are attended, and shall require the adoption by every local Health Committee of such a system as will secure—

(a) The preparation and publication of lists of persons, firms, and bodies corporate who have agreed to supply drugs, medicines, and appliances to insured persons whose medical benefit is administered by the Committee, according to such scale of prices as may be fixed by the Committee;

(b) A right on the part of any person, firm, or body corporate desirous of being included in any such list as aforesaid, of being so included, for the purpose of supplying such drugs, medicines, and appliances as such person, firm, or body corporate is entitled by law and authorised by the Committee to supply except in cases where the Insurance Commissioners after inquiry are satisfied that the inclusion or continuance of the person, firm, or body corporate in such list would be prejudicial to the efficiency of the service;

Provided that—

(i) If the Insurance Commissioners are satisfied that the scale of prices fixed by the Committee is reasonable, but that the persons, firms, or bodies corporate included in any list are not such as to secure an adequate and convenient supply of drugs, medicines, and appliances in any area, they may dispense with the necessity of the adoption of such system as aforesaid as respects that area and authorise the Committee to make such other arrangements as the Commissioners may approve;

(ii) Except as may be provided by regulations made by the Insurance Commissioners, no arrangement shall be made by the local Health Committee with a medical practitioner under which he is bound or agrees to supply drugs or medicine to any insured persons;

(iii) Subject to the regulations made by the last foregoing proviso the regulations shall prohibit arrangements for the dispensing of and medicines being made with persons other than persons, firms, or bodies corporate entitled to carry on the business of a chemist and druggist under the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, who undertake that all medicines supplied by them to insured persons shall be dispensed either by or under the direct supervision of a registered pharmacist or by a person who, for three years immediately prior to the passing of this Act, has acted as a dispenser to a duly qualified medical practitioner or a public institution;

(iv) Nothing in this Act shall interfere with the rights and privileges conferred by the Apothecaries Act, 1815, upon any person qualified under that Act to act as an assistant to any apothecary in compounding and dispensing medicines.

[We ask subscribers to keep this clause as printed above, and to paste it on p. 465 of the "C. & D. Diary, 1912," when they get it.]

The amendments to the clause by Mr. O'Grady, Mr. Boydon, and Mr. Peto were not adopted; nor were Mr. Glyn-Jones's amendments providing for the representation of chemists and druggists on the local Health Committees, nor his proposal to institute local pharmaceutical committees.

The final division on the Insurance Bill, so far as the House of Commons is concerned, was taken in a crowded house late on Wednesday evening. Special whips had been issued to all parties in the House, and many of the Irish

Nationalists and also Mr. T. W. Russell, M.P. (Vice-President of the Board of Agriculture in that country) returned to London specially to record their votes. Subsequently the Bill was sent across to the House of Lords, who read it a first time shortly before 11 o'clock. The second reading debate will be taken on Monday, December 11, and it is expected that Parliament will be prorogued on December 19 or 20.

Under Winter Session we report a meeting of Edinburgh chemists, at which a resolution was passed condemning the alterations in Clause 16 as regards the supply and dispensing of medicines. Since then a long letter has been addressed to the Chancellor of the Exchequer on behalf of their Associations by Messrs. G. H. C. Rowland, Secretary Edinburgh District Chemists' Trade Association; John Muir, Secretary Leith and District Chemists' Association; and Henry Stout, Secretary Edinburgh Chemists', Assistants', and Apprentices' Association. The letter begins by referring to the meeting on November 29 and the principle of compulsory separation of the prescribing of medicines from the dispensing of them, then it proceeds:

"The feeling in Scotland among pharmacists generally is that after ample time for consideration and all parties interested having had sufficient opportunity for being heard, the foregoing principle had been adequately embodied in Clause 16 (5) of the Bill by the unanimous consent of the House of Commons in Committee, and there was no anticipation that a settlement arrived at would be departed from or materially modified."

The letter then takes up the resolution referred to, and submits the following arguments for restoring Clause 16 (5) to the form agreed upon by Committee of the whole House—viz.:

(1) It is the intention of the Pharmacy Acts to provide a public guarantee for a supply of proper and sufficient drugs and medicines when prescribed by duly qualified medical practitioners. This guarantee should be secured in the medical treatment of insured persons. To ensure this it is as necessary that the pharmacy service of medical benefit should be carried out solely by duly qualified pharmacists as that the medical service should, as the Bill very properly provides, be solely carried out by duly qualified medical practitioners. Therefore, in Clause 16 (5) (b), page 17, line 31, the words "properly qualified" after "any" should be reinserted for the guidance of the Insurance Commissioners and the local Health Committees, and the new words "for the purpose of supplying" down to "authorised by the Committee to supply," after "included" in line 33, should be deleted. They are superfluous, and may be so construed as to frustrate the obtaining of a supply of proper and sufficient drugs.

(2) The new Clause 16 (5) (ii) is very different in its purport from the wording which it displaces, and seems capable of an interpretation essentially inconsistent with the principle of a compulsory separation of the functions of prescribing and dispensing. (Reference is made to the situation which arose with regard to the granting of poison-licences under the Poisons and Pharmacy Act, 1908.) Warned by this experience . . . we earnestly ask that the sub-clause be restored to the form agreed upon by the House of Commons in Committee, and more especially that the words "which consent they shall not give unless the circumstances of any locality are such as to make it expedient to do so" be retained as an explicit and specific instruction to the Insurance Commissioners.

(3) We strongly deprecate the omission of the words "supply of drugs and" after "the" in Clause 16 (5) (iii), page 18, line 16. If this means (the letter proceeds to say) that the supply is to be by the unqualified, this sets aside the only adequate public guarantee for the supply of proper and sufficient drugs, and is inconsistent with Clause 16 (5), page 17, line 15.

(4) We equally deprecate the insertion of the limiting or qualifying words "dispensing of" before "medicines" in Clause 16 (5) (iii), page 18, line 16. The letter points out that the word "dispensing" is variously understood, and it is of vital importance that the most simple drug should be absolutely pure and reliable and supplied by a skilled pharmacist.

(5) We equally deprecate the introduction of the words "Pharmacy Act, 1868, as amended by the" after "the" in Clause 16 (5) (iii), page 18, line 20. The reasons given for this are that any medical practitioner may, and many do, carry on the business of a chemist and druggist under the provisions of the Pharmacy Act, 1868, and that the reference to the 1868 Act is unnecessary.

(6) Finally, we submit that the provisions of Clause 16 (5) should apply to any arrangement made pursuant to Clause 16 (3) in so far as it relates to the supply of medicines to insured persons, and the cost of which is paid wholly or partly out of the Insurance Fund. Unless an amendment is introduced making this perfectly explicit, we greatly fear that Clause 16 (3) will be extensively taken advantage of to perpetuate the present inefficient and most unsatisfactory system so strongly and justly condemned by yourself, and under which medical attendance and the supply of drugs is combined. It is, perhaps, enough to mention that in cases of death resulting from a dispensing error made by a doctor or his unqualified dispenser the doctor signs the death-certificate. There are many other reasons why insured persons should be protected against the evils and risks of a combination of prescribing and dispensing by one individual.

We have abbreviated several of the paragraphs.

The following letter has been written on behalf of the Committee of Liverpool and District Retail Pharmacists:

The Secretary,
Pharmaceutical Society of Great Britain,
17 Bloomsbury Square, London, W.C.

December 5, 1911.

DEAR SIR,—The above committee, representing nearly all the retail chemists of fifteen Parliamentary Divisions in this district, at a meeting held on Monday night, December 4, unanimously resolved:

"That the meagre and unsatisfactory concessions granted chemists under the Insurance Bill call for strenuous action on the part of the Pharmaceutical Council to secure efficient representation by pharmacists on the Advisory Board and local Insurance Committees.

"Further, that we strongly protest against the injustice of the amendments carried without discussion during the Report stage, and that we *insist* upon the Society, as our only representative body, taking immediate action and using every possible means to remedy or mitigate the serious injury to our statutory qualification and business interests certain to accrue under the provisions of the Bill."

I am directed to forward the above resolution to you for your consideration.

Faithfully yours,

L. MORETON PARRY, Hon. Secretary.

APOTHECARIES' ASSISTANTS.

Mr. Albert Howell, the Secretary of the Association of Certificated Dispensers, who has been working most assiduously on behalf of his fellow-members since the introduction of the Bill into the House of Commons, informs us that Sub-section 5 (iv) is satisfactory to apothecaries' assistants so far as the retention of their present positions and the continued exercise of their rights are concerned. It is, perhaps, not generally known that one of the earliest difficulties in respect to the conservation of those carrying on business under the Pharmacy Acts was this question of the rights of apothecaries' assistants. Thanks to Mr. Howell and his coadjutors and the amicable manner in which all parties to the negotiations approached each other, the conclusion is regarded as satisfactory by them all.

MEDICAL ATTENDANCE AND TREATMENT.

Sub-section 3 of Clause 16 is in the following terms:

The regulations made by the Insurance Commissioners shall authorise the local Health Committee by which medical benefit is administered to require any persons whose income exceeds a limit to be fixed by them, and to allow any other persons, in lieu of receiving medical benefit under such arrangements as aforesaid, to make their own arrangements for receiving medical attendance and treatment (including medicines and appliances), and in such case the committee shall, subject to the regulations, contribute from the funds out of which medical benefit is payable towards the cost of medical attendance and treatment (including medicines and appliances) for such persons sums not exceeding in the aggregate the amounts which the committee would otherwise have expended in providing medical benefit for them.

Subject to the provisions of the Apothecaries Act, which applies solely to England and Wales, this sub-section is of a permissive character, since it is intended to enable insured persons to choose their own medical attendant; and the question arises whether the regulations of the Insurance Commissioners will be such as to enable them to consult persons who are not named on the Medical Register, such as herbalists, dispensing chemists, and Christian Scientists. The wording of the sub-section is wide enough for that purpose, and was probably so intended. A deputation representing herbalists was received on November 4 by Mr. W. J. Braithwaite, on behalf of Mr. Lloyd George,

and we extract the following report of the interview from "The Herb Doctor":

The meeting was of a pleasant character, and formed itself really into a conversation, Mr. R. C. Wren explaining that from time immemorial the herbal system of medicine had been in existence, and herbalists had more or less the right to practise. He feared that their practice would be prejudiced under the Insurance Bill, and asked what rights those who objected to State medicine would have under the Bill.

Mr. Braithwaite thereupon asked if the attention of the deputation had been drawn to Sub-section 3 of Clause 14, where, in the clearest technical language, the rights of the herbalist and others opposed to allopathic medicine were preserved. Mr. Braithwaite explained that, although "medical benefit" under Clause 14 (1) of the Bill could be provided only by "duly qualified" (*i.e.*, registered) doctors under Sub-clause (3) it was provided that the regulations of the Insurance Commissioners should authorise the local Health Committee to allow insured persons, "in lieu of receiving medical benefit . . . to make their own arrangements for receiving medical attendance and treatment." He absolutely declined, saying the thing was impossible, to insert in the clause the word "herbalist," or any other word referring to any system of medicine other than that already inserted. He advised the deputation to get the opinion of a good counsel upon what was the exact legal meaning of the words in the sub-section, and then, if the deputation chose, they should prepare a hypothetical case, illustrating their views against the sub-section, which should be placed before him, and to which, if necessary, he would reply.

Some discussion ensued as to the meaning that might be put upon the words in Sub-section 3. Mr. W. H. Webb pointed out that the sub-section left too much power in the hands of the local Health Committee, and illustrated his argument by referring to the refusal of magistrates to grant exemption-certificates to conscientious objectors under the Vaccination Act, 1898, an abuse which paved the way for the passing of the revised Act of 1907.

Mr. Watmore, representing the practising herbalists, asked what was the meaning of "qualified practitioners," and was informed that the words had reference to the legally qualified registered practitioner as understood, and no other meaning could be conveyed into that. Asked as to whether qualified herbalists would be entitled to be included in the panel of doctors, the answer was, "Emphatically, no; under no circumstances whatever would any but the legally qualified registered practitioner be permitted on the panel"; but the Health Committees, which in all probability would be largely composed of the members of benefit societies, would be able to arrange, under Sub-section 3, as to certain conditions where other treatment than that of the legally qualified registered practitioner could be obtained. Mr. Braithwaite was careful to impress upon the deputation that under this sub-section there could be no deprivation of the rights, liberties, and privileges of the insured.

The deputation, having thanked Mr. Braithwaite, withdrew.

This account sufficiently indicates the possibilities of Sub-section 3.

THE MEDICAL POSITION.

In a comprehensive review of the business and results of the representative meeting of the British Medical Association in regard to the Insurance Bill, the "British Medical Journal" (1911, ii., 1492) says:

It was proposed that the Association should continue its efforts to obtain such amendments in the Bill as would improve the position of the profession under the Bill, and that, in the meantime, it should reaffirm its determination to adhere to the six cardinal principles of its policy as already declared, and advise the profession not to accept any terms of employment under the Bill which were not entirely in accordance with those principles. After long and anxious debate, in the course of which every aspect of the matter was brought forward, the meeting decided definitely in favour of this course. . . . No one suggested that there was any prospect of the Bill being withdrawn, and it was pointed out that if it were carried into law the profession would still continue to hold in its hands the power to declare its refusal to work under the Bill.

CHEMISTS' PROTESTS.

The Chief Liberal Whip, in a letter to a Midlothian doctor, says:

"I think that, after matured consideration of the Bill, as amended, you and your colleagues will see that your earlier objections have been far more fully met than they have yet generally realised. In these circumstances the Government feel assured that the medical profession, concerned as it must necessarily be for the best interests of the nation (concurrently with due regard for professional interests),

will now be ready cordially to enter upon the important process of bringing the Bill into satisfactory operation in order to secure for the people the great benefits which it offers."

THE MEDICAL INSURANCE COMMISSIONERS.

At the representative meeting of the British Medical Association, which was held in London in the last week of November, reference was made by Dr. MacLean to the rumours in the smoking-rooms of the House of Commons and London clubs to the appointment of a medical commissioner, and he disclaimed, on behalf of himself and other leaders of the Association, the possibility of their accepting such an appointment. On Saturday, December 2, it was intimated in several morning papers that Mr. J. Smith Whitaker, the Medical Secretary of the Association, had been offered the vacant seat on the Commission, and that day a meeting of the Council of the Association was held for the purpose of considering Mr. Smith Whitaker's reference of the matter to them. In the House of Commons on Monday evening, December 4, the following conversation on the matter took place:

Mr. Joynson-Hicks asked the Chancellor of the Exchequer whether the report that the Secretary of the British Medical Association had been appointed an Insurance Commissioner was correct, and, if so, when he was first approached.

The Chancellor of the Exchequer: The report is correct. Mr. J. Smith Whitaker was approached last week for the first time on the subject. He consulted the Council of the British Medical Association, and I received a letter from him dated December 2: "Having consulted the Council of the British Medical Association, I have been advised by them to accept the post of Deputy-Chairman of the Insurance Commission for England offered in your letter of December 1. I do so accept it on the terms stated in that letter."

Mr. Joynson-Hicks: May we assume that the British Medical Association are satisfied with the provisions of the Bill?

The Chancellor of the Exchequer: I should not like to express an opinion on that. At any rate, the offer was submitted to them, and they allowed Mr. Smith Whitaker to accept it.

Major Anstruther-Gray: Will anybody be appointed to represent Scotland?

The Chancellor of the Exchequer: We are bound to appoint a medical officer, though perhaps not on the same terms.

It is understood that the salary attached to the office is £1,500 a year. Mr. Smith Whitaker is a Yorkshireman, being the son of Mr. John Whitaker, and was born at Haslingden, Lancashire, in January 1866. He was educated at Hawes, at Manchester Grammar School, and at Owens College, Manchester. He became M.R.C.S. and L.R.C.P.Lond. in 1891, and practised for ten years in Great Yarmouth. In 1902 he was appointed Medical Secretary to the British Medical Association. This was at a time when club practice was honeycombing the medical profession, and Mr. Smith Whitaker threw himself into the work with energy and knowledge, the full fruits of which have been harvested by his Association while the National Insurance Bill has been in the House of Commons. It would be a mistake to contribute the perfect organisation of the Association solely to Mr. Smith Whitaker, for the Association has been fortunate during the past decade in having on its Council many practitioners of the younger generation who have led the way in reorganisation and sacrificed themselves and their work quite freely to help matters forward. In this they have had a willing helper in the Medical Secretary.

Mr. Smith Whitaker's appointment is regarded by Dr. F. J. Smith, F.R.C.P., as a "betrayal" of the medical profession. He wrote to "The Times" of December 6 to that effect, and on the 7th Sir Victor Horsley and other members of the Council of the Association replied that the matter was debated in a full meeting of the Council representative of the profession in all parts of the country, and the decision to recommend Mr. Whitaker to accept the appointment was arrived at by a vote of thirty-eight to three.

A REFERENDUM.

Mr. R. A. Cooper, Unionist M.P. for Walsall, which is a working-class constituency and formerly voted Liberal, is taking a referendum of his constituents on the Insurance Bill. He has posted the following card to 15,000 electors: "How do you wish me to vote? For the Bill or against the Bill? Please put a cross and post in the enclosed

envelope, to reach me not later than Tuesday morning."

Mr. J. Gretton (Rutland) has also taken a referendum. Up to Tuesday the figures were respectively: 2,750 against and 429 for in Rutland, and in Walsall 5,752 against and 3,272 for.

"A THING OF SHREDS AND PATCHES."

This is the title given in "Punch" of December 6 to Mr. Raven Hill's cartoon, which depicts the Insurance Bill on bended knee before an austere and elderly looking peer, who sits in his ermine robes and his coronet, while behind him is a two-handed sword, the point of which is protected by a Liberal bunch of wadding. The miserable-looking Bill exclaims to him: "My Lord, I know you're not allowed to kill me; but please don't mangle me more than you can help. I've had a dence of a time already at the hands of my respected parent."

INTERROGATORIES.

DOCTORS' DISPENSERS.—Mr. William Peel asked the Chancellor of the Exchequer on Monday, December 4, whether his attention has been drawn to the fact that, under the terms of the Bill, doctors' dispensers will be deprived of their livelihood; and whether, in view of the fact that there are a number at present of technically unqualified chemists' assistants, he will do his best, either by way of direction, or suggestion to the Insurance Commissioners, or otherwise, that the interest of this deserving class is properly protected under assurance for the dispensing of medicines when the Bill comes into effect.—Mr. McKinnon Wood (Financial Secretary to the Treasury) replied that he did not contemplate any great disturbance arising in the means of livelihood of doctors' dispensers, but he would communicate the hon. member's representations to the Insurance Commissioners, who will be able to bear the cases mentioned in mind in sanctioning arrangements for medical benefit under the Bill. Mr. Gokhlan: May I ask the right hon. gentleman whether, in view of the fact that a large number of this deserving class will be thrown out of work and are not likely to find employment in an already congested trade, the directions to be given to the Insurance Commissioners will be of a nature suggesting compensation, monetary or otherwise?—The Speaker: The hon. member should give notice of that question.

ARMY DISPENSERS.—The Chancellor of the Exchequer will be asked on Tuesday next by Mr. Page Croft, M.P., whether qualified compounders and dispensers of medicines of the Royal Army Medical Corps having businesses of their own will be allowed to submit their names as eligible to dispense prescriptions under the National Insurance Bill.

WESTMINSTER WISDOM.

The Week in Parliament.

THE FINANCE BILL.

It was intended to make a beginning on Thursday, December 7, of the Committee stage of the long-deferred Finance Bill in the House of Commons, but it was postponed until Monday next. A large number of amendments appear on the notice-paper (see *C. & D.*, November 25, index folio 780), but what chiefly interests the drug-trade is Mr. Glyn-Jones's new clause in respect of licences to sell rectified spirit for medicinal purposes, which is as follows:

(1) An Excise licence for the sale for medicinal purposes only of rectified spirits not less than 43° above proof to duly qualified medical practitioners or registered chemists, or for use in hospitals, may be granted to a manufacturing or wholesale chemist or druggist upon payment of the duty of 10s.

(2) An Excise licence for the sale by retail of any wine placed by the Commissioners of Customs and Excise in a list of wines which are, in their opinion, medicated wines may be granted to a registered chemist upon payment of a duty of 10s.

(3) Every such licence shall be granted in such form and subject to such conditions as the said Commissioners shall prescribe and shall expire on the thirtieth day of June in each year.

(4) If any person holding a licence granted under this section sells spirits or wine of any description, or in any manner not authorised by his licence, he shall incur a fine of 50l.

Another clause of interest is that of which Sir George Younger has given notice. This relates to restrictions on the use of British wines used for blending purposes—viz.:

The Commissioners of Customs and Excise may make regulations prohibiting or restricting the mixture for sale of

any British wines with any foreign wine or with any description of spirits, or the sale or exposure for sale of any such mixture, and requiring every manufacturer for sale of British wines to enter in the book obtained by him from the offices of Customs and Excise such particulars as may be prescribed by them in reference to all British wines made and sent out by him, and if any person acts in contravention or fails to comply with any of these regulations the article in respect of which the offence is committed shall be forfeited, and the person committing the offence shall be liable in respect of each offence to an Excise penalty of 50%.

On Tuesday, December 5, Captain Jessel gave notice of the following new clause:

An Excise licence for the sale for medicinal purposes only of rectified spirits not less than 43° above proof to duly qualified medical practitioners, veterinary surgeons, or registered chemists, or for use in hospitals, may be granted to a manufacturing or wholesale chemist or druggist upon payment of the duty of 10%.

[This is an amendment of one of the paragraphs of Mr. Glyn-Jones's clause, the terms of which were mutually agreed upon by those interested before the clause was put upon the Commons' papers. It is to be hoped that Captain Jessel's amendment will not have the effect of preventing the adoption of Mr. Glyn-Jones's clause, as to which there is some risk.—EDITOR *C. & D.*]

SHOPS BILL.

Mr. Churchill gave notice on December 6 of a large number of amendments to the Shops Bill. Among them is one to add to Schedule 3 the following:

The sale of medicines and medical and surgical appliances, retail trade carried on at exhibitions if local authorities certify that such local trade is subordinate or ancillary to the main part of the exhibition.

(See also *index folio 856.*)

LEGISLATION FOR INEBRIATES.

As has already been foreshadowed in the *C. & D.*, the Home Secretary has now definitely announced that he has in draft an Inebriates Bill, which will probably be introduced in the course of next Session. One of the provisions of this measure will be that magistrates will in every case be enabled to commit habitual inebriates to reformatories, towards the cost of which, it is expected, the Treasury will render financial assistance.

QUESTIONS AND ANSWERS.

CHEMICAL FLOUR-IMPROVERS.—In the House of Commons on Wednesday, December 6, Mr. Harrison-Broadley, M.P., asked the President of the Board of Trade whether he is yet in a position to make his pronouncement on the report of Dr. Hamell, and, if so, whether electrical bleaching of flour or chemical improvers, or both, will be allowed.—Mr. Burns replied that the matter is still under consideration.

THE SOAP AMALGAMATION.—In the House of Commons on Monday the President of the Board of Trade was asked by Mr. George Terrell, M.P., whether his attention had been directed to the amalgamation of the soap-manufacturing businesses of Joseph Crosfield & Son, Ltd., and W. Gossage & Son, Ltd., with the firm of Brunner, Mond & Co., Ltd.; and whether he would take steps to introduce legislation on the lines of the anti-trust laws of the United States of America for the purpose of regulating and controlling such trusts and combines in this country.—The Secretary of the Board of Trade replied that he had seen Press announcements to the effect stated in the first part of the question. He was not aware of any sufficient reason for action on his part.—Mr. Terrell: Are we to consider that the trusts, which have been denounced as the vice of Tariff Reform, are now to be considered a virtue under Free Trade?—Mr. King: Is not the best way to keep trusts out to keep Free Trade in?—No answer was returned.

EXPRESS PARCELS SERVICE.—In the House of Commons on December 6, in reply to Lord Henry Cavendish-Bentinck, the Postmaster-General stated that he is quite alive to the expediency of economising boy labour, and a Standing Committee which he had appointed had before it the question of doing so as far as possible in connection with express delivery. The Post Office already have an efficient express delivery of letters and parcels which is performed by telegraph messengers in connection with their other duties, and he did not think that an adult service, as suggested, could be substituted with advantage.

LARGE SUPPLIES OF QUININE for the malaria-stricken families on the plain of Bragu-mati, Albania, have recently arrived from England.



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS LONDON."
Telephone No.: BANK 852 (two lines).

INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries received since our last issue:

- 257/17. "Novoform": supply.
- 253/27. Wilson's magnetic belts.
- 253/2. Maple sugar: wholesale supply.
- 245/53. "Curexa": address of maker.
- 254/43. "Poudre St. Leonards" (March).
- 247/45. *Enanthe crocata* (fresh root): supply.
- 254/430. Nesbie Evans "Nightingale" bed-table.
- 253/29. *Catha edulis* (Abyssinian tea): suppliers.
- 255/64. "20th Century" pocket inhaler: London supply.
- 249/16. Seymour, Ellis & Co., makers of skin-ointment: address.
- 255/54. Quentin's "Velvette Violette" for the bath: British agents.

INFORMATION SUPPLIED.

During the past week we have answered inquiries as to where the following articles can be obtained, and in many cases we have given the actual makers. The information will be repeated to any other inquirers who send to this Department a stamped and addressed envelope for the purpose.

- | | |
|---|--|
| Adaptable eorn-shields, 252/20 | Liquorice-juice, 254/11 |
| Adare's toilet-creams, 252/39 | Maritime pine oil, 253/28 |
| Annett's vaccine, 252/60 | Mercolised wax, 253/28 |
| Boricinc (Meissonnier), 251/10 | 255/56 |
| Chiclets, 251/28 | Moore's "Modern Methods," 37/9. |
| Compressing machinery (Russian inquiry), 247/19 | 252/57, 253/40, |
| Copper sulphate, 257/16 | 253/66, 254/35, 254/68, and |
| Caraderma cream, 256/2 | 256/37 |
| Cyona ointment, 253/17 | Omnopon, 255/2 |
| Digitalis-leaves (U.S.A. inquiry), 247/45 | Papier Maché goods, 254/40 |
| Derma cura, 257/20 | Perfumes (in miniature beer-bottles), 252/71 |
| Emulsifiers (small capacities) 250/3 | "Premier" suspensory bandages, 254/47 |
| First-aid cold-cream, 255/71 | "Puritas" disinfectants, 254/69 |
| Glacialine, 256/3 | Quaker oats, 251/74 |
| Glebe granulated sugar, 256/4 | Requa manicure preparations, 251/18 |
| Humbly's lambing-oils, 252/49 | Rexall remedies (London address), 254/8 |
| Iglodine, 255/72 | Saxolite, 252/21 |
| Inulin, 256/4 | Skinetolin, 251/6 |
| "Kill Pain," 251/250 | Sloan's preparations, 251/25 |
| Leukrol pastilles, 253/280 | Spermethanton pastilles, 254/52 |
| Loeflund's preparations, 251/450 | Taylor's "Cimolite," 251/45 |

POISONING FATALITIES.—Nine deaths have been reported from poisoning during the week. In three cases death was due to misadventure. There was an inquest at Cardiff on Gertrude Wheeler (20), who committed suicide by taking earbolic acid, and one at Norwich on Arthur Adams (45), bricklayer, who "died from misadventure through drinking some disinfectant instead of beer from a bottle." Laudanum caused the death of Marjorie Kay (23) and Walter Cresswell (45), Leicester. At Liverpool Gilbert Collinge (31) committed suicide with 10 grains of heroin. George Ernest Steward (36), commercial traveller, died at Weymouth from the effects of taking veronal and injecting morphine to induce sleep. Oxalic acid was taken by Richard Maloney (52), farrier, Bow Common Lane, London, E. Spirit of salt, taken in mistake for Epsom salts, caused the death of Wm. R. Page at East Dulwich, and veronal in fatal quantity was taken by Paul P. Reitlinger, a medical student, living at Queen's Gate, London, W.

OBSERVATIONS & REFLECTIONS.

By Xrayser II.

The "Remnant"

Left to us under Clause 16 of the Insurance Bill is not all we had a right to expect, and your disappointment will be shared by pharmacists generally; but the separation of dispensing from prescribing, and the virtual handing-over of the former to us, which, after all, are the essential things, are secured, and this gives us a superior position under the Bill, as well as a better status in public estimation than we have hitherto enjoyed. It is, I am aware, "bad luck to count what one has gained," but surely I do not take too optimistic a view in thinking the compromise to which we shall in all probability have to submit worth accepting with a good grace. We have been honourably distinguished thus far by the moderation of our demands; my counsel would be to show a similar spirit now. None of the three parties affected by the clause has obtained all it wanted; my impression is that by loyally accepting what has been allotted to us we shall still occupy the premier position. The "supply" of drugs will come almost entirely under the head of dispensing; all poisons, whether dispensed or not, will, I presume, fall to us, for the clause can scarcely be held (I speak as a layman) to nullify the Pharmacy Act; and we ought to be able to secure a fair share of "appliances." Assuredly all is not lost; it may be that a good deal more is left than at first appears.

In Competing with Unqualified Opponents

the pharmacist labours under several disadvantages. Pharmacy makes certain demands upon its votaries. It is difficult, indeed it is impossible, to give due attention to what may truly be called the scientific side of our business, to cultivate the high class of trade of which dispensing is the chief feature, and at the same time devote ourselves heart and soul, as men who have no such preoccupation can do, to its purely commercial side. Only those of us—and they are very few—whose circumstances enable them to keep pharmacy, strictly so-called, in an entirely separate department, under special control, can do this, and even they perhaps not perfectly. The ordinary chemist has virtually to choose between two courses, or so to divide his attention as to handicap himself a little in regard to both. It may not be a very serious handicap, but it tells against him in competition with outsiders. In spite of what has been said in your correspondence columns, it is a fact that no great amount of

General Dispensing

can be done by one who is disqualified from handling poisons; the bulk of this business inevitably falls to the qualified man. A much smaller proportion of his time is therefore left for general business, and time is not by any means the only consideration. The effect of our greater responsibility and more exacting work is a factor of even more importance, meaning, as it does, increased mental strain, a more detached attention, and, I think I may add, a more scrupulous conscience, none of which conduces to smartness in business. The trade in poisons itself in some ways makes against us. Be as diplomatic and conciliatory as we may, we cannot help giving offence now and then by our inquiries and scruples; we have not infrequently to refuse absolutely to supply what is asked for, and the formalities by which we are hedged about are more frequently still occasions of annoyance to inconsiderate customers. Why, then, it may be asked, qualify at all? Because we honestly think ourselves of public service in discharging a function for which we can only thus be fitted; and also because we prefer the higher

to the lower calling. How long this preference will survive such ungenerous treatment as we have been receiving lately is another question.

Bacteriology for Chemists

has a taking sort of a sound with it, and I entirely agree with Dr. Ellis that a knowledge of the science is of immense benefit to the chemist. Considering the present trend of medical practice, I cannot conceive of a branch of knowledge that would be of greater value to the pharmacist in his daily intercourse with medical men, and I hope therefore that every young pharmacist will get to know as much about the subject as he possibly can. Dr. Ellis goes on to say that this knowledge is the best adjunct that a chemist can have, but if he means by this that it is a side-line that a chemist could cultivate with material advantage I respectfully part company with him. There are two great barriers to this class of work being taken up by chemists. The first objection is that medical men would have no confidence in the work of any bacteriologist who is not also a trained pathologist. This may appear harsh, but it is not an unreasonable attitude, and it exists. The second reason is that the personal conduct of a chemist's business and the carrying out of bacteriological work, which in the nature of the case must also be personal, if it is to be acceptable, are incompatible with each other. Anyone who knows the routine and the detail of bacteriological work will agree that this is so.

Artificial Waters

claiming to represent the products of the natural mineral springs are not sold in this country, and there is no fear of any pharmacist being fined 200*l.* as you report has been done in France. A very harmless carbonated beverage is often sold by mineral-water makers under the name of Seltzer Water, and, of course, we sell the factitious Harrogate Salts and Carlsbad Salts. Kissin-gen and Vichy Salts are also sometimes sold in the form of effervescent granules, but, so far as I know, no attempt has been made to fabricate actual imitations of the natural waters. Whether, if any such attempt were made, the law would step in and say "No," is a point I am not prepared to pass an opinion upon. Considering the immense quantities of natural waters that are sold, one would suppose that there was here a rich field for ingenious workers in which to turn a penny more or less dishonestly, and it is perhaps surprising that the attempt has not been made ere this.

Plasters

have certainly declined in favour, both with the profession and the public, since I entered the trade. It is many years since I spread one (always excepting blisters), and I never had an assistant who had any notion how to do it. There are, if my memory serves me, only eight plasters in our present Pharmacopœia. I remember at least as many more in occasional use in different parts of the country, and one of the first things I was set to learn was how to spread them. Even then their vogue was declining; it is astonishing, in view of their combined nastiness and inefficiency, that they lingered so long after the ages of faith had departed. Most of those in our older dispensaries were certainly useless. Culpeper has 54 varieties, Alleyne (1733) no fewer than 70; before the end of the eighteenth century those in unofficial books had dwindled to about 30, of which only 12 were official in England. Clarke's *Conspicua*, however (1811), has 25, Rennie's (1837) 42, but many of those in the latter are from foreign sources. Lane in 1851 gave 12 as official. One of the oldest plasters known is emp. diachalciteos, or diapalmæ, as it was also called from the ingredients having to be mixed by stirring them with a palm branch. This dates from Galen, and retained a place in the P.L. down to 1721. In the Edinburgh book it was retained until 1735, but the only active ingredient left in it was litharge. It is a matter of dispute what chalcitis, or calcitis, was, and various substances were latterly used for it. One of the plasters I remember in use was emp. paracelsi (sticticum), which, as the name imports, comes down from Paracelsus, as does also emp. opodeldoc. A great many of our formerly official plasters were due to Mesue.

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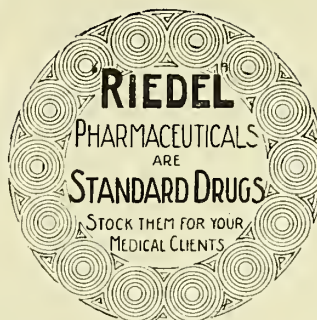
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LIQUORS

Editorial Articles.

"Reasonable Proportions."

THE penultimate stage of the National Insurance Bill may be said to have been passed in the House of Commons on Wednesday night, when it was read a third time. It has now been sent to the House of Lords, which will take up its consideration next week. Speculation as to what their Lordships will do with it is voluminous, and varies with the party politics of the speculators. Those who are interested in Clause 16, especially medical men, are to treat the passage of the Bill in the Upper Chamber as another opportunity of securing alterations which the House of Commons has not effected. That effort is apparently to be denied to those engaged in pharmacy, for at the meeting of the Pharmaceutical Council this week it was indicated that the Watch Committee would endeavour to prevent the drugs and medicine provisions of the clause being further amended contrary to the interests of registered chemists. The Council did not discuss the matter publicly, but an intimation has been issued to the effect that in Clause 16 (5) as it comes from Report the Government amendments and modifications have been limited to "reasonable proportions." Whether or not that is an expression of satisfaction we must leave time to tell. So far as the dispensing of medicines is concerned—and it is this which we have chiefly in mind—from the introduction of the Bill we have not ceased to emphasise the value to pharmacists, especially in England, of the separation of the prescribing of medicines from the dispensing thereof, as announced by the Chancellor of the Exchequer when introducing the Bill, and effected in the amendments secured by Mr. Glyn-Jones in Committee last August. The

value lies in the beginning of a separation which was established elsewhere in the United Kingdom many years ago, and has been immensely beneficial to medical treatment. As the clause has emerged from the House of Commons it does not secure this separation, for it gives the Insurance Commissioners powers to frame regulations under which prescribers may dispense also. We are informed that *it is intended* that this power will be of very limited application, but it is impossible to forget what has happened under the Poisons and Pharmacy Act, 1908, and in the absence of pharmaceutical representation on any of the administrative bodies instituted by the Bill, *there is no assurance* of pharmaceutical advocacy within them, or any other check upon giving more to doctors under Clause 16 (5 ii.) than what is intended. Even a guarantee that the Pharmaceutical Society would be consulted when the regulations as to dispensing came to be made would go some way towards allaying the distrust which has arisen among chemists during the past week. The representation which the medical profession has secured in the machinery for administering medical benefit, and the marked hostility which that profession has exhibited towards the Chancellor's enunciation as regards prescribing and dispensing are good reasons for Parliament extending to pharmacists some measure of protection and representation. It can be done in the House of Lords, and we hope the arrangement come to with the Chancellor of the Exchequer does not preclude an effort in that direction. It would be a pity if Parliament even at this late hour should labour under the impression that chemists are "satisfied."

* * *

In his speech in the House of Commons on Wednesday evening on the Opposition amendment to postpone the Bill, Mr. Lloyd George said (the italics are ours) :

"I am not going to say that the doctors are satisfied. *After all, if they were to express satisfaction it would weaken what the hon. member for Leicester calls their trade-union position.* They have got to arrange with the local Health Committee, and if they started by saying that they were satisfied, of course it would be the greatest possible mistake that they could make. Still, what has been arranged in the Bill enables the process of free bargaining to go on between the local Health Committees, the Friendly Societies, and the medical men."

Apparently the Chancellor had not then had the nature of the contents of the Edinburgh pharmacists' letter communicated to him, but had that one "small voice" been joined by hundreds more that are available, Mr. Lloyd George might also have said that the chemists are not satisfied.

A New Departure.

It may be remembered that as the outcome of a speech by Professor A. W. Crossley, F.R.S., Dean of the School of Pharmacy, at the complimentary dinner to Mr. S. W. Fairchild, of New York, at the Constitutional Club, in May last (*C. & D.*, 1911, I. 743), provision was made for a course of advanced lectures in pharmacy at the school. A committee, consisting of Mr. C. B. Allen (President of the Pharmaceutical Society), Professor Crossley, Professor Greenish, and Mr. A. E. Holden, was appointed by the Pharmaceutical Council to make the preliminary arrangements, and we have received the following communication in regard to the matter from Professor Crossley as representing the committee :

The Advanced Lectures Committee have arranged for a course of five lectures on "The Terpenes and Essential Oils" to be delivered in the spring of 1912.

Sir William Tilden will give the first lecture of the course, entitled "The Terpenes and their Chemical Relations," on Thursday evening, April 25, 1912; Professor W. H. Perkin

will deliver the second and third lectures on "The Synthesis of the Terpenes" on Thursday evenings, May 9 and 23, 1912; and Mr. John C. Umney will give the fourth and fifth lectures on "The Occurrence, Classification, Valuation, and Commerce of Essential Oils" on Thursday evenings, May 30 and June 13, 1912.

All the lectures will commence at 8 p.m., and though primarily intended for the encouragement of Major students, will be open to all members of the Pharmaceutical Society, to those holding or studying for the Major qualification of the Pharmaceutical Society, and to other persons on presentation of a ticket to be obtained from the Secretary of the committee.

Further announcements in regard to the lectures will be made in due course.

This seems to us a happy inauguration of the new departure in pharmaceutical education. Sir William Tilden, K.C.V.O., F.R.S., is the oldest living student and teacher whose name is identified with the School of Pharmacy, as well as being indelibly associated with investigation of the constituents of essential oils. It is not necessary to refer further at present to his career as a scientific chemist. Although he long since gave up pharmacy, he has not lost touch with it, and this series of lectures will recall his former days at the Square, when his immediate successor as Junior Bell Scholar was Mr. Charles Umney, whose son, Mr. John C. Umney, F.C.S., is to bring the series of lectures to what we may call a practical conclusion. Lovers of coincidences will reflect on that. The link which Professor Perkin, F.R.S., is to provide with his lectures on the synthesis of the terpenes should give students a clear outlook to the future of the subject, while they will probably continue on more recent lines the exposition which Sir William Tilden may give of the historical aspects of essential-oil research, especially in regard to the discovery and isolation of terpenes. The fact that few students of pharmacy have the opportunity of giving consideration to this subject while they are preparing for examination, and that a mere fraction of them turn their attention to it after, justifies the selection of it for the first course of advanced lectures. From the practical point of view it is also a happy augury. In former days when the constitution of essential oils was unknown, this country held high reputation for its essential oils; without losing this it has to share the business with other countries which have been more keenly alive to the importance of the work which Sir William Tilden inaugurated in this country, and which in other directions was continued by Dr. John Gladstone and Professor Perkin's father. A wider knowledge among pharmacists of what has been and is being done in this fertile field of research should not fail to improve our productive powers and commercial position in the essential-oil business.

"Poison" and "Poisonous."

An interesting correspondence is arising from the question put by Xrayser II. What is a poison? Before the theorising goes further we may as well say that the Poisons and Pharmacy Bill of 1908 used the word "Poison," but this was changed to "Poisonous" at the solicitation of Mr. Idris, as representative of the Pharmaceutical Society of Great Britain, so as to distinguish between the poisons which registered chemists only may sell and the poisons which anybody may sell. (See *C. & D.*, December 12, 1908, p. 903.) At the time, Xrayser (the late Mr. A. C. Wootton) wrote (*C. & D.*, December 19, 1908, p. 935) : "Mr. Idris's purpose would have been better served and the safety of the public more assured if some word or words less closely related to 'poison' had been adopted . . . 'Poisonous' is, in fact, about midway between unwholesome and deadly; and this is not quite the way

to describe oil of vitriol. 'Dangerously corrosive' would have been a more effective deterrent on the labels, and would have been further removed from the word 'poison' than 'poisonous' can be." It is remarkable how circumstances such as these are so quickly forgotten, also how opinions as to facts differ. Xrayser II. considers that "Poisonous" is a stronger term than "Poison." That by the way. A case which was investigated by the Coroner at Rotherfield, Sussex, one day this week exemplifies another aspect of this question. The subject of the inquiry was a gentleman who had long suffered from asthma and who died from heart-failure. He had been in the habit of using an asthma-powder which does not contain any scheduled poison, but the manufacturers labelled it "Poison" in order to guard against it being taken by the mouth instead of being burned and the smoke inhaled. The Coroner, in his remarks, inferred that the word "Poison" should not be used for articles which are not scheduled under the Poisons and Pharmacy Acts. We do not agree with the Coroner in this. It is a well-established custom on the part of retail chemists to label "Poison" many articles which are not scheduled. Carbolic acid, nitric acid, sulphuric acid, hydrochloric acid, solution of ammonia, and salt of sorrel were treated as poisons by chemists long before it became legally necessary to label them, and many coroners have remarked upon the necessity for this being done. In the case of asthma-powders containing lobelia and stramonium, both of which are toxic agents, but not scheduled poisons, were a precaution such as this not adopted and fatality or injury resulted from someone taking a teaspoonful in water, there would be an outcry against those who made and sold the article.

A Telephonic Message.

"Chemists have been had, I understand," said the Editor of a great daily newspaper to 852 Bank last Friday morning, referring to the National Insurance Bill. "Will the Editor of THE CHEMIST AND DRUGGIST write us a signed article on the subject?" The reply was in the negative.

Use of the Geneva or Red Cross.

We have received the following letter from the Secretary of the War Office, which makes it clear that the permission to use until August 18, 1915, the emblem of the Red Cross or the words "Red Cross" and "Geneva Cross" for the purposes of trade is not confined to registered trade-marks:

83/246. (C. 2.). War Office, London, S.W.,
December 4, 1911.

SIR,—In reply to your letter of the 29th ultimo, I am directed to inform you that the provisions of the letter from this Department of the 28th ultimo, numbered as above, extend to the use of the emblem of the Red Cross and the words "Red Cross" or "Geneva Cross," notwithstanding the fact that such emblem or words have not been registered as trade-marks; and it was with the object of making this clear that the letter referred to above was sent.

With regard to the position of owners of registered marks, I am to refer you to Section 1 (3) of the Geneva Convention Act, 1911, a copy of which is enclosed.

I am, Sir, your obedient servant,
R. H. BRADE.

The Editor, THE CHEMIST AND DRUGGIST,
42 Cannon Street, E.C.

This general permission will save manufacturers, retailers, and wholesalers who use the Red Cross on labels from applying for special permission to continue such use. It is important to note that the permission is made in respect to labels or other printed matter actually in stock, and is intended solely to enable wholesalers and retailers to dispose of them satisfactorily. It would be inadvisable to start new uses of the Red Cross now, seeing that it must be

discontinued within four years, and such new use can be legal only if it is sanctioned by the Army Council.

A Chance for Chemists.

A very interesting proposal is, it is stated, engaging the attention of the authorities in connection with the unveiling by the King, on his return from India, in the early part of next year, of the mammoth quadriga, the work of Captain Adrian Jones, which will shortly be erected on the top of Decimus Burton's arch at Hyde Park Corner. The suggestion is that, in view of the immensity of the group, the unveiling should be effected by the aid of some chemical process by means of which the shroud enveloping the giant horses and other figures would be literally burnt off the bronze exterior. The suggestion is ingenious and probably not impossible of accomplishment. We mention the matter so that fertile-brained chemists who read this paragraph may set their wits to work forthwith.

Christmas Business.

In this article a provincial pharmacist (252/8) gives some seasonable and useful reminders for the display and sale of goods for gifts at this season.

THE trade in Christmas gifts is one of which the chemist should get his share. Unless he does so, December is apt to be a slacker rather than a busier month, for there are holiday times when income should be earned beforehand, while a quiet time of business usually follows the festive season, notwithstanding the popular joke as to its final effect upon the chemist's income.

THE GOODS.

In some localities it may be worth while to extend one's stock of goods beyond the range of the articles generally sold, but, as a rule, it is wise to limit one's buying to things which sell at any time of the year. An exception may be made of such lines as optical and electrical toys, magic-lanterns, motors, and the like, which are often good holiday stock. Whatever else one pushes, one should specialise in perfumes. It is a good plan to depart from the usual business method of buying only enough for a quick turnover, and get in about a year's supply in order to make a good show. One usually finds that some new perfume comes out each autumn, and such should be made a leading line; thus one gets a name for having the latest and freshest goods, and one's announcements will be looked for. If a localised perfume or a good lavender-water is put up it should be kept well to the front. The writer makes a point of preparing lavender-water one Christmas for sale at the next, advertising it as "made last year" along with the legend "Perfumes are like promises—the good ones improve by being kept." Hair-brushes in satinwood, ebony, and celluloid, with ordinary bristles and whalebone, may be reckoned next to perfumes as good Christmas show stock. To a full line of dressing-combs may be added hand-mirrors in celluloid, ebony, and nickel. It is a good plan to put together sets in black and white—respectively of a brush, mirror, and comb, with the price of each marked on a card, and a reduction shown at the rate of about 1s. in 1l. on the purchase of a set. Brush-cases may be stocked also, and will suit many purchasers, though the better value of the goods sold without a case is sometimes worth talking about. Add manicure-sets, perfume-sprays, smelling-bottles (plain and silver-mounted), celluloid boxes, nail-scissors for ladies, and military brush-cases, shaving-sets, shaving-brushes, safety-razors, dressing-mirrors, and pocket companions for gentlemen, in such selection as the neighbourhood justifies. Cameras and enlarging apparatus may also come within the list. Indiarubber hot-water bottles should not be overlooked, and vacuum flasks are a recent introduction which has possibilities of development.

THE ADVERTISING

of Christmas gift goods should be carried out by the joint means of circulars and special window-shows. For the

circular, a good idea is to have a heading "Christmas Gifts," followed by a few remarks on the merit, beauty, and utility of one's goods, with the body of the circular divided into two columns, headed respectively "For Ladies" and "For Gentlemen." Or, under a similar heading, the body of a quarto circular may be divided into ten or a dozen separate oblong panels, each about 3 in. wide by 1 in. deep, and devoted to a specially selected line with a concise description and prices. The bottom of the circular should carry a reference to the large number of other goods stocked and suitable for presents, concluding with name and address well displayed. If newspapers are used the advertising should be on the same lines.

THE WINDOW-SHOW

should be made attractive. To begin with, it should be strictly limited to Christmas goods. Then it should be brightened up in some special manner. The old-fashioned way was to use a lot of cotton-wool and artificial frost; this, unless exceptionally well done, is not nowadays considered in good taste. In some cases the paper garlands which are obtainable in folded lengths may be utilised and stretched along the tops and sides of the windows, but these should be used with restraint, or the result will be "common."

I have used with very good effect a series of designs placed close to the glass of the window in such a way as to attract the attention of passers-by without interfering with their view of the goods in the window. One of these was that given in the *C. & D.* a year ago—the suspension of a small paper- or tinsel-covered hoop (quite a small one, just as a nucleus) in the centre of the window a couple of inches from the glass, and the passing of strands of tinsel string from the hoop to points about three inches apart all round the border of the window.

Another design was a large five-pointed star in cardboard, reinforced at the back by strong wire, covered with white paper and frosted; this was suspended near the glass, and ribbons, alternately red and yellow, fixed from it to the top sides and bottom of the window and twisted slightly in the fixing; these ribbons were an inch or two apart on the star and several inches apart at the window circumference. The effect is of a star with rays.

Yet another device is to construct archways of coloured paper (specially strong stuff should be chosen, not ordinary coloured demy); the side pillars should have plinth and colonnade, and, if the window be a wide one, it should be divided into three archways with corresponding pillars. If a good red-surfaced paper is chosen and relieved by ornaments (stars, diamonds, and crescents) cut out of gilt paper, the result is rich without being obtrusive. The paper may be strengthened by a length of tape glued at the back along the full length at the top, and by pieces of cardboard in any other places where it may be necessary; the top of the archway is fastened to the woodwork at the top of the window by means of drawing-pins; the "pillars" should be made rather longer than necessary and the bottom ends folded over and fastened down taut to the window floor by means of drawing-pins or tacks. If well made and taken care of, the device may be used on more than one occasion. The words "Christmas Gifts" may be cut out of paper and pasted on the upper part of the window, or, alternatively, they may be made of large size and so form a part of still another design by being worked into a trellis-work of various coloured-paper slips pasted on the glass outside.

In all cases the floor of the window should have a covering of sateen, muslin, or other art-coloured material, while nothing so much tends to make a window look finished as proper attention to the back; if this be mirrored it may often with advantage be lightly draped; if not, it should be well curtained, or, as an alternative, well supplied with photographic show-cards.

The contents of the window should be varied. Some of all the special lines advertised should be there, articles of a similar kind being kept together. Needless to say, everything should be distinctly priced, while articles the use of which may not be thoroughly understood by the public—*e.g.*, vacuum flasks—should have descriptive cards, concisely worded.

WINTER SESSION.

Association Presidents.

THE North Staffs Chemists' Association has on more than one occasion within recent years played a prominent part in strenuous events which have made pharmaceutical history, and its new President, Mr. T. C. Cornwell, Ph.C., of Hanley, has had no little share in forward movements. Mr. Cornwell was born about fifty-five years ago on board a troop-ship during the Indian Mutiny, and he was reared in Penzance, where he was apprenticed in 1870 to the late Mr. W. C. Hemmings, with whom he remained for five years as apprentice and assistant, and during that time found time to study at the local School of Mines, where he distinguished himself in chemistry and geology. He passed the Minor examination in April 1879 from the Westminster College of Pharmacy, and for a year after that was assistant to Messrs. Rew & Co., Regent Street, leaving them to become senior assistant to Mr. Henry Deane, of Clapham, with whom he remained for three years, until his health compelled him to take a twelve-months' holiday; but that did not prevent him studying for and passing the Major examination in December 1883. In the following year Mr. Cornwell purchased the business of the late Mr. Arthur Baines, of 14 Piccadilly, Hanley, which had been established in 1835. Subsequently he started branches at Hope Street, Hanley, and High Street, Fenton, but gave up the multiple-shop idea, disposed of the branches, and now concentrates all his energies—and that very successfully—in his original pharmacy. Mr. Cornwell is one of a growing number of pharmacists who have proved that modern company competition is merely a stimulus to greater effort, and that the pharmacist with individuality, *plus* business enterprise and recurring effort, can go ahead. He is an extensive local advertiser, a thorough believer in the future of the drug-trade, and he has an extensive business relationship with the doctors of his district, whom it has always been his endeavour to serve to his utmost capacity, believing that the chemist's pharmaceutical status is much enhanced thereby.



Mr. T. C. CORNWELL.

Brief Records.

Dewsbury Pharmacists' Association.—A meeting was held at the Church House, Dewsbury, on Monday evening, December 4, Councillor A. B. Barker, of Heckmondwike (President), in the chair. Mr. W. Blakeley read a paper on "Foods," which the members much enjoyed, and after a conversation upon it, Mr. Blakeley was heartily thanked, on the proposition of Mr. Pickard, seconded by Mr. Mortimer.

Nottingham Pharmaceutical Society.—A meeting was held at the Victoria Station Hotel on December 6, Mr. F. Ross Sergeant (Vice-President) in the chair. There were also present Messrs. W. Gill, T. Freeman, A. Middleton, C. F. Carr, A. Eberlin, J. T. Rayson, S. Royce, T. Wilson, T. J. Williamson, H. Brown, C. E. Reynolds, — Kent, — Radford, sen., H. M. Radford, E. S. Dickenson, D. Ellis, H. P. Middleton, E. E. H. Turton, A. E. Beilby, H. Clifford Prince, and C. A. Bolton. Mr. W. Gill gave a lecture on "Bacteria and Disease," treating of toxins and antitoxins, vaccines, and the bacteria of diphtheria, consumption, lockjaw, and anthrax. The paper gave rise to a discussion, and Mr. Gill was accorded a hearty vote of thanks.

Cheltenham, Gloucester, and District Pharmacists' Association.—A general meeting was held at the Plough Hotel, Cheltenham, on Thursday, November 30, Mr. J. A. Thomas (President) in the chair. Messrs. W. Barron, F. T. Palmer, A. C. Saxby, A. Hill, J. Chambers, H. B. Clark, C. H. James, H. B. Lloyd, J. P. James, W. Palmer, T. T. Dolman, and W. H. Hill (Hon. Secretary) were also present. The following were elected members: Messrs. Bache, Hill, Curtis, W. Walwyn, C. R. Leech, F. G. Mills, and Walton. A guinea was voted to the Pharmaceutical Benevolent Fund. Various interesting matters were dealt with, including the house-to-house canvassing adopted by various firms. With one exception, the members were very strongly opposed to such methods.

Preston Pharmacists' Association.—A meeting was held at the Crown Hotel on December 5, Mr. Burnett (President) in the chair. There were also present Messrs. Livesey, Mercer, Topping, R. Parker, Pomfret, Fisher, Williamson, Emmett, Greenwood, Hindle, Thomas, Walmsley, Arkle, and Freeman (Hon. Secretary). The rules of the Association were confirmed, and the Hon. Secretary will be pleased to forward a copy to any Pharmacists' Association on application. Letters were received from Mr. A. A. Tobin, K.C., M.P., and Major Stanley, M.P., on the *National Insurance Bill*. According to the new rules, two members are required to be elected on the Executive Committee. This was referred to the next meeting, in order that the election may take place by ballot. Mr. Burnett introduced a discussion on "Proprietaries and Their Prices," Messrs. Livesey, Mercer, Arkle, Topping, Walmsley, Williamson, and Thomas joining in the discussion.

London Chemists' Association.—A meeting of the General Purposes Committee of this Association was held at the residence of Mr. J. Wellesley Douglas (Hon. Secretary), 19 Kennington Terrace, S.E., on December 6. Mr. J. C. Pentney was in the chair, and among those present were Messrs. Truman, Slator, and Hearle. The Chairman and the Hon. Secretary—delegates to the British Pharmaceutical Conference—reported on their visit. The *National Insurance Bill* occupied the principal place in the business, and Clause 16 (formerly 14) as reported to the House of Commons on November 30 was carefully considered. Although pharmacists have not secured the sole right of supplying drugs and appliances to insured persons, it was considered satisfactory that the right of dispensing medicines under the Bill is solely confined to those entitled to carry on the business of pharmacy according to the Act of 1908. Many difficulties were, however, anticipated, especially in regard to the prices for the supply of medicines during the night. One member declared that he would not undertake any work under the Bill. However, it was considered that Mr. Glyn-Jones had worked well on behalf of pharmacists, and it was resolved that a vote of thanks be passed and sent to him for his splendid efforts on behalf of the trade. It was decided to call a general meeting in January to consider, in the event of the Bill becoming law, what steps should be taken in regard to the local Health Committees and other details. It was also resolved to have a social evening early next month.

Pharmaceutical Society Meetings.—Mr. W. J. U. Woolcock, Organisation Officer, has attended the following meetings since our last issue:

Grimsbey. Mr. Cor. Willson presiding, on Thursday, November 30. Present: Messrs. Dewing, Sneath, Humphries, Ashton, Schofield, Chapman, Colley, Johnson, Robinson, Moore, Jowett, Barnett, Fletcher, Boor, Sigley and Boskill.

Hull, evening of the same day, Mr. R. F. Jones (President of the local Association) in the chair. Also present: Messrs. A. Richardson, W. H. Walton, C. Morrow, A. T. Thirsk, R. B. Sawyer, J. W. Chapman, L. S. Selle, J. F. Robson, E. C. Foster, S. W. Robinson, A. S. Snowden, A. W. Jackson, L. B. King, J. T. Lincoln, T. H. Newton, J. Tiffany, T. Smith, T. H. Good, M. Wharton, and W. Staning (Hon. Secretary).

Lincoln, on Wednesday afternoon, November 29. Present: Messrs. W. E. Hill (in the chair, E. R. Dixon, H. Allison, G. J. Walker, F. P. Watson, W. Rayner, J. H. Shuttleworth, Boon, W. E. White, J. Hague, D. S. Wark, C. B. Aram, and A. S. Birkbeck (Hon. Secretary of the local Association).

Spalding, on Wednesday, evening, November 29, Mr. E. Wightman Bell (Divisional Secretary) in the chair. Among others present were Messrs. Tom Holland, J. W. Hall (Peterborough), J. Hill, J. F. Fowle, J. W. Bodger (President Peterborough Association), J. G. Sturton (D.S., Peterborough), E. H. Judge, R. D. Aitken, C. Wass, J. Epton, R. M. Hearnshaw, J. W. Hearnshaw, R. S. Donington, and A. H. Molson. At all these meetings Mr. Woolcock dealt principally with the National Insurance Bill and the scheme for federating the local Associations with the Society.

Leeds Chemists' Association.—At a meeting on December 6, Mr. J. H. Beacock (President) presiding, Mr. R. Broadhead, of Batley, read a paper on "The Strength of the Pharmaceutical Society," in which he spoke very strongly upon the policy of the Society. He alluded to the Poisons and Pharmacy Act of 1908, and said the Society should have protected the title rather than the practice. The present position of chemists in regard to the *National Insurance Bill* had been largely brought about by the policy followed by the Pharmaceutical Council. In the course of a discussion which followed several speakers expressed the feeling that no advantage is to be gained by the qualified chemists. Mr. F. Pilkington Sargeant said the Pharmaceutical Society had beaten a retreat. The benefits stated to accrue to the qualified men are entirely visionary. No Government on the Continent would have allowed the right

of unqualified and unexamined people to sell medicines of which they knew nothing. In Leeds probably one-third of the panel would be qualified and two-thirds probably unqualified persons. In regard to dispensing, he thought they ought to rid themselves of the idea that doctors are not going to do their own dispensing. If the Bill is passed the position of qualified men will be very bad, because he believed the position had been created for the first time that unqualified men are actually accepted by statute as legal dispensers of drugs and medicines. A vote of thanks was accorded to Mr. Broadhead, who emphasised the need for the Society to show the public that the qualified pharmacist is the man who holds the Society's certificate. A resolution was passed for submission to the Pharmaceutical Society to the effect that the Association views with alarm the provisions of Clause 16 of the National Insurance Bill, as reported to the House of Commons on November 30, as being prejudicial to the safety of the public and an injustice to registered chemists, and requests the Pharmaceutical Society to endeavour to bring about the defeat of the Bill in the House of Lords.

Edinburgh C., A., & A. Association.—Mr. E. J. Brown, Ph.C., presided at a large and representative meeting of the members of the Association and registered chemists in the Edinburgh district. It was a conference on the *National Insurance Bill*, and was opened by Mr. J. R. Hill. It was pointed out that the practice of medicine is confined by the Bill to duly qualified medical practitioners, and that all requests for recognition by herbalists and others had been rejected on the ground that such recognition would interfere with the efficiency of the medical service for insured persons (see, however, index folio 846.—Ed. C. & D.). For precisely similar reasons it was strongly insisted by the speakers that the practice of pharmacy in the supply of proper and sufficient drugs and medicines prescribed for insured persons should be confined to persons, firms, and bodies corporate whose businesses are conducted by duly qualified pharmacists under the Pharmacy Acts. There was quoted from the official report of Hansard the Chancellor of the Exchequer's declaration in introducing the Bill that there ought to be a compulsory separation between the prescribing and the dispensing of medicines, and that while the business of the medical practitioner should be confined to prescribing, it should be for the pharmacist to do the dispensing. There was also quoted from the Government White Paper the reiterated assurance to the same effect given by the Chancellor of the Exchequer in July to a deputation representing all those engaged in the practice of pharmacy in the United Kingdom. Strong disapproval was expressed of the changes then contemplated and since carried out on Clause 16 (5), and, on the motion of the President, seconded by Mr. E. O. Rowland, the following resolution was unanimously adopted:

"This meeting of registered chemists and chemists' assistants and apprentices in the Edinburgh district resolves to make a strong representation to the Chancellor of the Exchequer in favour of retaining the provisions of Clause 16 (5), as unanimously adopted by the House of Commons in Committee, and remits to a committee to take what action may be necessary to secure this object." Messrs. Brown, Forrest, Glass, E. O. Rowland, G. H. C. Rowland, and Stout were appointed a committee.

Social Gatherings.

Edinburgh Pharmacy Athletic Club.—The annual dance was given in the Victoria Hall, Leith Street, Edinburgh, on Monday, December 4. Over a hundred were present, and Messrs. Chambers, Cochran, Garry, and E. O. Rowland acted as Masters of Ceremonies. During an interval, Mr. Rutherford Hill proposed success to the Club, which sentiment was received with enthusiasm.

Bovril Swimming Club.—The Club dinner was held at the Trocadero Restaurant, London, W., on December 2, Mr. B. S. Straus, J.P., who presided, being supported by Messrs. A. E. Canney, A. Searl, and F. H. Lander. Toasting "The Bovril Swimming Club," the Chairman dealt with the record for the past season and at the same time referred to the loyalty of the employees to the company. An excellent concert followed the dinner.

Bolton Pharmacists' Association.—A very successful whist-drive was held at the West End Café on Wednesday, November 29. The first ladies' prize was won by Mrs. Howarth, the gentlemen's by Mr. Rothwell; the other prize-winners were Mrs. Johnson and Mr. Rushton. The remainder of the evening was spent in a social manner. Miss Blain, Mr. Rushton, Councillor Percy Knott, and Mr. Wm. R. Blain contributing to this part of the programme.

Thames Valley at Whist.—On December 6 a company of about 100 assembled at the Pagoda, Richmond Hill, S.W., on the occasion of the first whist-drive of the session organised by the Thames Valley Pharmacists' Association. Play started promptly and continued till about 10.30 p.m.,

except for a short interval for refreshments. The prize-winners were: *Ladies*—(1) Miss Ditcham, (2) Miss Palmer, (3) Mrs. Lee, (4) Miss Popplewell, (5) Mrs. Calvert. *Gentlemen*—(1) Mr. C. Harvey, (2) Mr. C. J. Bunker, (3) Mr. Murphy, (4) Mr. Arrowsmith, (5) Mr. Miller. The prizes were distributed by Mrs. Harvey, the President's wife, and an enjoyable evening was brought to a close with a vote of thanks to her. The arrangements were in the hands of Messrs. A. Higgs, J. P. Harvey, Peake, and Parrott.

Sunderland Pharmaceutical Association.—The forty-ninth annual dinner of this Association was held at the Grand Hotel, Bridge Street, on November 29, where a good muster spent an enjoyable evening. Among those present were Mr. W. Nimmo (President), the Mayor of Sunderland, Dr. Renner (Medical Officer), Dr. Buddel (Chairman, Sunderland Chemical Society), Alderman J. G. Kertley, J.P., Alderman J. Harrison, J.P., Alderman T. Johnston, J.P., Alderman H. J. Turnbull, J.P., Messrs. R. Anderson, C. Hodgson (Hon. Treasurer), A. H. M. Purse (Hon. Secretary), R. C. Thursfield, G. P. Fairman, C. Ranken, E. R. Cherrett, J. W. Todd, F. Harpham, W. Kerrison, J. G. Harrison, W. Leadbetter, Nimmo Scott, J. Park, Sol. Taylor, W. Kerse, C. E. Layne and W. Pescod (Newcastle), and T. Walton. After the loyal toast, Mr. E. R. Cherrett proposed that of the Mayor and Corporation of Sunderland, to which the Mayor responded. The toast of "The Sunderland Pharmaceutical Association and Kindred Associations" was

Professor Crossley, Mr. C. B. Allen, Mr. C. T. Allen, Mr. E. White, Mr. H. Finnemore, Mr. R. R. Bennett, Mr. V. C. Hewlett, Mr. W. Browne, Mr. Chas. Brookes, Mr. H. Hickey, Mr. Sidney Jameson, Mr. W. F. Gulliver, and others. A good programme was provided under the direction of Mr. Wilson James, and "Square" favourites such as Miss Ruby Wilson and Mr. Harry Hudson received a full measure of applause. After the sixth item on the programme Mr. W. R. Pratt proposed the toast of "The Pharmaceutical Football Club," and dwelt on the advantages of football as a safety-valve for animal spirits and the improved moral tone which results. He suggested the formation of an "Old Boys' Club." Mr. Foulkes-Jones, Captain of the Club, replied, and regretted the ill-luck that had dogged the footsteps of the Club so far during the season. He hoped that after Christmas, when the cares of examinations were less pressing, the members would be able to make up lost ground. Other toasts during the evening were "The Concert Committee" and "The Chairman." The Hon. Secretaries of the committee (Messrs. N. Pullen and H. G. Hopkinson) spent a busy evening looking after the comforts of the visitors.

An Inaugural Dinner.—The South-East Essex Pharmacists' Association held an inaugural dinner at the Hotel Victoria, Southend, on November 29. Mr. A. L. Harrington presided, and he was supported by Mr. E. T. Neathercoat, member of the Council of the Pharmaceutical Society.

The wholesale houses showed their sympathy in the movement by sending representatives and messages. The company of twenty-nine included: Messrs. Angior, Carpenter, Cowe, Crookham, Dawson, Goode, Heywood, Hickey (Parke, Davis & Co.), Hillen, Ingram, Johnson-Kelly, King, Laws (Sangers'), Misselbrook, Nowell, Page, Parker, Price, Royle (Ingram & Royle), Shields, Sibley (The British Drug Houses), Spouncer, Whitman (Maw, Sons & Sons), and E. A. Holloway (Hon. Secretary). The Hon. Secretary, after dinner, stated that all the local chemists had joined the Association, and appealed to them to see that the new "baby" grew up healthy and strong and a power for good. Mr. Neathercoat, in his address, asked for support of the Pharmaceutical Society, and explained the position of chemists under the National Insurance Bill. Mr. Heywood, in a racy address, also drove home the need for cohesion locally. Mr. Lyell Johnston, formerly a member



SOUTH EAST ESSEX ASSOCIATION DINNER.

The Chairman, Mr. A. L. Harrington, is in the centre at the back, with Mr. E. T. Neathercoat on his right and Mr. E. A. Holloway on his left.

given by Alderman J. G. Kertley, J.P., and replied to by Alderman J. Harrison and Mr. W. Pescod. "The Visitors" were toasted by Alderman H. J. Turnbull, Mr. C. E. Layne, and Alderman T. Johnston, J.P., replying. An excellent musical entertainment was provided at intervals.

Plymouth Pharmacists' Association.—At the annual dinner of Plymouth, Devonport, Stonehouse, and District Association of Pharmacists, held at the Café Genoni, Plymouth, on November 29, Mr. J. Davy Turney (President) occupied the chair and Mr. F. A. Spear the vice-chair. Mr. R. F. Roper submitted "The Pharmaceutical Society of Great Britain," and Mr. F. Maitland, responding, said that, so far as he could understand the Insurance Bill, the outlook is rather dark for chemists, but he was hoping for better things. Mr. H. Wippell Gadd (Exeter), proposing "The Association," dealt with those parts of the Insurance Bill which affect chemists, and suggested that the Association should appeal to the members of the House of Lords, as Exeter Chamber of Commerce is doing, to make such alterations as seem proper to prevent hardship. The Association would do well to get into touch with local members of the House of Lords. The President, in responding, remarked that he did not take a pessimistic view of the situation. It was greatly due to the advocacy of Mr. Glyn-Jones, M.P., that chemists have gained the advantages they have. During the evening a musical programme was contributed by Messrs. W. Martin, Goldsworthy, Butts, F. A. Spear, F. J. Barge, and R. F. Roper.

School of Pharmacy Smoking-concert.—The Council-chamber of the Holborn Restaurant, London, W.C., was on December 6 the scene of the annual smoking-concert of the Football Club in connection with the School of Pharmacy of the Pharmaceutical Society. A good many tickets had been sold, and the attendance was up to the average. The chair was occupied by Mr. F. W. Gamble, who was supported by

of the drug-trade, was responsible for the enjoyable musical programme, to which Mr. Pearce Page contributed.

C.A.A. Smoker.—The annual reunion of the Chemists' Assistants' Association, which takes the form of a smoking-concert, was held at the Restaurant Frascati, London, W., on November 30, two records being broken in connection with this function—the attendance numbering over 300 and the President of the Pharmaceutical Society putting in an appearance for the first time. Mr. Alan Francis (the Chairman) was supported by Mr. C. B. Allen (President of the Pharmaceutical Society), Mr. F. Naylor (President C.A.A.), Mr. W. Browne (President Western Chemists' Association), and Mr. R. Bremridge. The room was taxed to its fullest capacity, and among the company we noticed the following: Messrs. A. Boyes (Baiss Bros. & Stevenson), J. Clark and R. Malone (Burroughs Wellcome & Co.), L. Cooper, F. W. Crossley-Holland, H. B. Everson, A. Haigh, H. Hickey (Parke, Davis & Co.), S. Jamieson, S. Kutnow, A. Latrielle, R. E. Lownsbrough, C. W. Martin (S. Maw, Son & Sons), Piper (British Drug Houses), C. S. Presant (Sangers'), H. R. Procter, C. Read, R. J. Reuter, J. Rickford, and H. Martin (Allen & Hanburys), J. Royle, G. A. Tocher, J. C. Umney, W. Weston, J. H. B. Wigginton, and P. B. Phillips and W. P. Styles (Hon. Secretaries). The programme arranged by Mr. A. R. Arrowsmith and Mr. Harry Hall was of excellent character and lasted until nearly midnight. In a brief interval before the last item the Chairman alluded to the activities of the C.A.A., and mentioned the satisfactory increase of over 50 per cent. in membership during this session. Those present who were not members of the Association could not do better than enrol themselves at the earliest opportunity. Mr. F. Naylor (President) then proposed a hearty vote of thanks to Mr. Francis for undertaking the duties of the chair, remarking that with such a man as the Chairman to back up the C.A.A. it could not help but

flourish. The artistes did their parts well, those calling for special mention being Miss Rosa Loder (extra) as the musical "slavey," Mr. Ernest Sewell (sleight-of-hand), Lauri Wylic (marionettes), Mr. Fred Curtis (impersonations), and Mr. Harry Hall (Jewish narrative). Songs by Miss Doris Lee, Mr. Wm. Aspinall, Mr. Frank Powell, and recitations by Mr. George Wreford gained much applause. The reunion was so successful that it is intended to engage a still larger room next year.

General Medical Council.

THE Autumn Session was continued at the House of the Council, 299 Oxford Street, London, W., on Thursday, November 30, and concluded the next day. The last penal case was that of George Herbert Fink, L.S.A., M.R.C.S., Queen's Gate Chambers, Cromwell Road, London, S.W., who was recently convicted at the Central Criminal Court of having forged a banker's cheque for 11,000*l.* 3*s.* 10*d.*, and "found guilty, but insane so as not to be responsible according to law, and ordered to be kept in custody during his Majesty's pleasure." After a short deliberation *in camera*, the President announced that the Council did not see fit to erase Mr. Fink's name from the Register.

MEDICAL MEN'S CERTIFICATES.

During most of Thursday afternoon the Council sat *in camera*, and on emerging from it gave an additional warning to the profession with respect to signing certificates. A practitioner who shall be shown to have given any untrue, misleading, or improper certificate whatever will in future be liable to have his name struck off the Register. Reports by examination committees were received and entered, and the Council rose shortly after four.

ON FRIDAY

the academic business was got through with celerity, the reports of the Public Health and Education Committees alone eliciting debates. There never was a session at which less discussion was entered into; three motions were withdrawn, one disappeared after the first day, and not one came to a head. The result was that the Council rose shortly after five o'clock on Friday, to meet again on June 4 next.

In regard to

PRELIMINARY EDUCATION AND REGISTRATION,

the Education Committee reported on the question remitted to them last session: "What alterations in the regulations for the registration of medical students are necessary to bring them into conformity with the facts and with the powers of the Council?" The powers of the Council have been challenged and fought by the English Conjoint Board for the last ten years, and the latter have at last prevailed. The committee recommended that registration should not take place till after the student has attained the age of sixteen, has passed his Preliminary examination, and has commenced medical study at a University, School of Medicine, or at a "teaching" (the word was formerly "scientific") institution recognised by one of the licensing bodies and approved by the Council. The substitution of "should" for "shall" in the succeeding clause, "That the course of study recognised should not be reckoned as dating earlier than fifteen days before the registration," was also very significant. After some discussion by Dr. Caton, Mr. Pye-Smith, Dr. Norman Moore, Sir William Morris, Sir John Moore, and Sir Thomas Fraser, the report was adopted, and, at the suggestion of the President, was remitted to the committee for the re-casting of the Council's resolutions regarding professional education necessitated by the changes proposed. At the suggestion of Sir Henry Morris, it was resolved that the alterations should be made at once, provisionally, on all recommendations issued between now and next June.

A report from the Public Health Committee was brought up by Dr. Norman Walker. It embodied changes in the regulations as to the curriculum, which is to extend to nine months instead of twelve, with laboratory instruction of not less than four months, not more than half of which should be devoted to practical chemistry; and the six months' practical study of public-health duties may be reduced to three if the candidate has attended a course

of "recognised" instruction, or been resident medical officer in an infectious hospital for three months. During the discussion it was stated that a medical officer should be capable of checking analysis and handling it, but it was not intended that he should be taught analysis; the combination of public analyst and public-health officer would not be tolerated. The report was adopted, the President and Sir Henry Morris deprecating too cast-iron regulations.

THE BRITISH PHARMACOPOEIA.

The report of the Pharmacopœia Committee was brought up by Sir George Phillipson, and received and entered.

From May 21 to November 18, 1911, the number of copies of the British Pharmacopœia (1898) sold by the publishers was 581. The total number of copies sold in the year beginning November 19, 1910, was 1,114; this is a larger number than any recorded for several years past. Up to the present time 43,574 copies of the Pharmacopœia and 4,511 copies of the Indian and Colonial Addendum have been sold. The stock of the Pharmacopœia now in hand numbers 1,439 copies; it will probably suffice for the demand during the next eighteen months. The third report of the Committee of Reference in Pharmacy, with a Supplement thereto, has been published, and the Pharmacopœia Committee have received a number of criticisms and comments upon its suggestions, of which note will be taken for subsequent use.

The committee have pleasure in intimating that Dr. Tirard, for many years its Secretary, and Professor Greenish (Secretary of the Committee of Reference in Pharmacy) have accepted appointment as Editors of the new issue of the Pharmacopœia, and are now engaged in classifying the materials relating to the revision of the text which have accumulated in the committee's hands. The committee have to acknowledge the courtesy of the Council of the Pharmaceutical Society of Great Britain, who have been good enough to make arrangements which have facilitated Professor Greenish's acceptance of this appointment. The Editors have submitted for the approval of the committee an outline of the steps they propose to take for the preparation of a first draft of the revised text. These will follow the general lines adopted in connection with the last revision. It will doubtless be necessary, as on previous occasions, to obtain expert assistance on technical questions from small committees of reference in chemistry and in botany. The appointment of such committees has been authorised by the committee.

The report of the National Insurance Bill Committee was received and entered. The President stated that it was largely an analysis of the steps taken between the Council and the Government, every stage of which had been made known at the time to the members. A great many amendments had been made the previous night (Thursday), but he had not seen the Chancellor of the Exchequer since, and it was impossible to tell what effect they would have till he (the President) could see the Bill. He asked that the action of the committee be approved, and that they should continue their work. This was agreed to, and the Council concluded with the usual vote of thanks to the President, moved by Sir Henry Morris, and coupled with the hope that he (the President) would soon be re-established in health. (Sir Donald MacAlister has been suffering from influenza.) It was decided, on the proposition of Sir Henry Morris, that in future the minutes should be corrected and adjusted *in camera*.

ACID-DROPS AND PEPPERMINT-LOZENGES are to replace snuff in the allowances made by the Marylebone and Lewisham Guardians to old female inmates at the workhouses.

SHOPS BILL.—The Government have now decided upon the shape in which they will bring forward the Shops Bill on report. Originally the measure consisted of thirty-five clauses, but these have been reduced to fifteen, some of which simply provide the machinery for carrying out the Ministerial proposals. Clauses 1 and 2 state that on at least one day in each week a shop-assistant must not be employed about the business of a shop after half-past one in the afternoon. The shop itself must be closed at one o'clock. Clause 3 relates to local inquiries for promoting early closing; Clauses 4 and 5 contain provisions as to trading elsewhere than in shops, and as respects shops where more than one business is conducted; Clause 6 indicates the powers and duties of local authorities; and the remaining clauses are more or less consequential. Of the two remaining schedules, one secures proper intervals for meals, and the other indicates the businesses which are to be exempt from the weekly half-holiday.—*Daily Telegraph*.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

Council-meeting.

THE monthly meeting was held at 16 Bloomsbury Square, London, W.C., on December 6. There was a full complement of councillors. In moving the report of the Finance Committee, the Treasurer called attention to the donation of 34*l.* received as the proceeds of a smoking-concert at Liverpool last month. Grants in aid amounting to 115*l.* were made from the Benevolent Fund. The proposal to alter the conditions of the Manchester scholarship was deferred for twelve months. The President called attention to the Fairchild lectures which are to be given in the Society's House in the spring. The report of the Parliamentary and General Purposes Committee dealt with Clause 16 of the National Insurance Bill, and stated that "while regretting that modifications had been introduced in the clause agreed in commending the work that had been done in resisting further introductions of a prejudicial character." The Council agreed to the appointment of an Insurance Committee which is to represent "every phase of pharmacy." Some discussion took place in regard to the sale of diachylon, the sale of which the Birkenhead and Wirral Association have decided to discourage. The Swedish Farmaceutiska Föreninger have, on the occasion of its jubilee, elected the President of the Pharmaceutical Society an honorary member. The sub-committee which has just issued a new edition of the "British Pharmaceutical Codex" was accorded a resolution of thanks for their services in the matter.

THE councillors present were Mr. C. B. Allen (President), Mr. W. L. Currie (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. F. E. Bilson, A. S. Campkin, W. G. Cross, J. H. Cuff, F. J. Gibson, R. L. Gifford, D. Gilmour, A. Hagon, J. F. Harrington, J. Harrison, E. T. Neathercoat, G. T. W. Newsholme, F. A. Rogers, P. F. Rowsell, C. Symes, R. C. Walshaw, E. White, and J. R. Young.

RESTORATIONS.

The minutes of the previous meeting having been read, seven persons were restored to the Register of Chemists and Druggists and twenty-four to membership of the Society. A student-associate was elected.

FINANCE.

The TREASURER presented the report of the Finance Committee, the following being an abstract of the report :

General Fund Receipts.

Penalties and costs	...	...	£65 10 6
Subscriptions	...	...	38 6 6
"Journal" and publications	...	...	1,068 4 2
School-fees	...	...	64 7 9
Registration-fees	...	...	58 16 0
Rent and ground-rent	...	...	122 8 4
Restoration-fees	...	...	17 7 0
			£1,435 0 3

After making payments authorised by the Council in November, there remained a balance of 1,192*l.* 3*s.* 2*d.*, from which the following amounts were recommended for payment :

"Journal" and publications	...	£1,733 18 11
Stationery, etc.	...	23 13 6
Current expenses	...	530 0 0
Salaries, etc.	...	933 16 8
School and examinations	...	81 14 3
Law-charges	...	47 7 0
House	...	140 16 0
Library	...	16 17 6
		£3,508 3 10

The balances on the Benevolent Fund were shown as follows :

Current account	...	...	£108 11 3
Donation account	...	...	74 5 1
Orphan Fund	...	...	77 5 0

In moving the adoption of the report, the TREASURER explained that the "Journal" account included large expenses in connection with the "Codex," which will be reinstated. The balances on the Benevolent Fund are better than last year. The donations include 34*l.* received as the proceeds of a smoking-concert at Liverpool.

Mr. YOUNG said he was present at the smoking-concert over which Sir Edward Evans presided. The amount realised probably beats all records. This is a pleasant way of raising money which could with advantage be copied by other Associations.

The PRESIDENT said Sir Edward Evans contributed a handsome amount to the donation. He (the President) had also received a cheque for two guineas from a wholesale house as the result of remarks made about the fund at the dinner of the Western Chemists' Association.

The report was adopted.

BENEVOLENT FUND.

The report of the Benevolent Fund Committee was taken *in camera*, after which

Mr. F. J. GIBSON, the Chairman, in moving the adoption of the report, referred to the healthy condition of the fund. Grants were made to seven applicants, amounting to 115*l.* The orphan fund now supports three children.

Mr. WALSHAW seconded, and the report was adopted.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was next taken. This referred, among other things, to the new catalogue of the library which has just been published. The Dean of the School was given permission to clear away some old physics apparatus in the lecture theatre, to make room for other apparatus. A bill for house-repairs amounting to 8*l.* 12*s.* was approved. Consideration of the conditions under which the Manchester scholarship is competed for was deferred for twelve months. The Secretary was instructed to have printed 850 copies of the Calendar and 1,380 copies of the Register for 1912. The consideration of the invitation from the International Pharmaceutical Federation to participate in the scheme was deferred.

The PRESIDENT, in moving the adoption of the report, mentioned that a charge is to be made for the library catalogue, which has hitherto been supplied free to members. In reply to an inquiry from Mr. GIFFORD, the President said that it has been thought better to defer the matter of the Manchester scholarship to obtain better indication of the desire for a change. The district is limited, but the proportion of candidates is not low, which shows that there is a demand for the scholarship. A great deal depends upon the masters in the district, who should urge their apprentices to compete for the scholarship. It is not the standard of the examination that is the difficulty.

Mr. YOUNG agreed that there should be justification for any change.

Dr. SYMES asked whether it was not rather a question of widening the conditions so that more may compete.

Mr. HARRISON hoped that steps would be taken to obtain the views of the Associations in the district concerned.

The PRESIDENT : We have already communicated with our officers.

Mr. HAGON was sorry the matter was to be deferred again. The conditions are wrong in their base, candidates being required to go back to their student days in the subjects. In view of the number of competitors for the Fairchild scholarship it is extraordinary that so little competition takes place for the Manchester scholarship.

Mr. WHITE said it had not been thought expedient to alter the conditions just now, as the examination is held in June.

Mr. GIFFORD : It will be no better twelve months hence.

Mr. WHITE pointed out that alterations had been made in the syllabus with a view to removing the academic character of the subjects.

Mr. Cross referred to the contemplated destruction of old physical apparatus which possesses a sentimental interest.

The PRESIDENT replied that it was in deference to sentiment that the apparatus had been kept so long. The apparatus is utter rubbish, and sentiment must give way to practicability.

The report was adopted.

THE FAIRCHILD LECTURES.

The PRESIDENT then announced that owing to a generous donor it has been possible to arrange a course of lectures on essential oils, to be delivered in the Society's House in the spring. Professor Crossley, the Secretary of the committee, with which is associated Mr. Holden, has had the matter in hand. Sir William Tilden will deliver the introductory lecture, and subsequent lecturers will be Professor W. H. Perkin and Mr. J. C. Umney. The lectures are to be open to all members of the Society and others who obtain tickets. A complete subject has been taken up which is one of infinite value to students and all dealing in these particular articles. The assent of the Council was needed for the use of the Society's premises.

The councillors signified their approval.

LOCAL ASSOCIATIONS COMMITTEE.

Mr. NEATHERCOAT moved the adoption of the report of this Committee, which dealt with the tours of Mr. Woolcock, the Local Associations officer, and the engagements of the President and Councillors to speak at various dinners.

The report was adopted.

The REGISTRAR presented his monthly report on registrations as apprentices or students.

DIVISIONAL SECRETARIES.

The following were elected divisional secretaries: Mr. H. H. Cannon, Penzance; Mr. W. T. Hall, Truro; Mr. D. L. Jones, Colwyn Bay; Mr. C. K. Gregory, Dawlish; Mr. W. A. McLeod, Brixton; Mr. Percy Jacques, Heywood; Mr. H. Shelmerdine, Ancoats; Mr. A. E. Bailey, Highgate; Mr. J. W. Golightly, Pudsey.

The PRESIDENT mentioned the aid of Mr. Riches, a commercial traveller and member of the Society, in obtaining these district officers.

THE NATIONAL INSURANCE BILL.

The Secretary then read the report of the Parliamentary and General Purposes Committee, as follows:

1. The President reported in detail on the efforts that had been made by himself and colleagues of the Parliamentary Watch Committee in conjunction with the Parliamentary Secretary, since the last meeting of the committee, to safeguard the interests of pharmacists under the National Insurance Bill. The Parliamentary Secretary attended and explained fully the effect of the alterations that had been made in Clause 16 (formerly 14) on Report stage. The committee expressed cordial acknowledgment of the excellent work that had been accomplished, and, while regretting the modifications that had been introduced into the pharmaceutical clause of the Insurance Bill, agreed in commending the work that had been done in resisting further introductions of a prejudicial character.

2. The committee then discussed the steps that should be adopted to prevent any further tampering with Clause 16 from a pharmaceutical point of view during the progress of the Bill in the House of Lords, and agreed upon a course of action with the object of securing the acceptance of those amendments which were to have been moved by Mr. W. S. Glyn-Jones, M.P., in the House of Commons, but were denied consideration in the House.

3. The committee recommends that a Private Standing Committee be appointed by the Council for the purpose of considering details in connection with the administration of the National Insurance Bill when passed. It is recommended that if the Council should agree to the setting up of a permanent Insurance Committee of this kind, it should be remitted to the Parliamentary and General Purposes Committee to take the necessary steps to invite representatives of every phase of pharmacy to serve upon that committee.

4. Mr. Edmund White reported an interview he had had with a representative of the War Office on the subject of qualifications of military and other dispensers.

After a brief discussion in committee the report was adopted.

BY-LAWS CONFIRMED.

The by-laws regarding Imperial reciprocity (*C. & D.*, November 4, index folio 690) which were read a first time at the November Council meeting were confirmed and read a second time.

EXAMINATION SUPERINTENDENTS.

Superintendents and deputy-superintendents of written examinations were appointed as follows: *London*, Mr. C. B. Allen and Mr. Harry Moon; *Edinburgh*, Mr. Claude F. Henry and Mr. Jas. Nesbit; *Manchester*, Mr. Harry Kemp and Mr. Chas. Swinn.

THE SALE OF DIACHYLON.

A letter was received from the Birkenhead and Wirral Chemists' Association forwarding a resolution passed at a recent meeting with reference to the sale of diachylon. The members have resolved to do all they can to discourage the sale.

The PRESIDENT said it would be well if other Associations would take similar action in protecting the public. The Privy Council had declined to place diachylon on the poison-schedule. Such action as that taken by the Birkenhead and Wirral chemists will do much to earn the thanks of their medical friends.

A member wrote asking for guidance in the sale of diachylon, aloes, tincture of steel, and bitter apple. The Secretary was instructed to write a letter.

A SWEDISH JUBILEE.

The Farmaceutiska Förening, Stockholm, invited the President of the Pharmaceutical Society to be an honorary member, this step being taken in connection with the celebration of the Jubilee of the Swedish Society.

The PRESIDENT said that the compliment had been acknowledged and the best wishes of the Society expressed on the attainment of the Jubilee of the Swedish Society. He had suggested that it would be better to make the President for the time being of the Pharmaceutical Society an honorary member.

POISON-BOTTLES.

A Divisional Officer inquired what steps could be taken to prevent the improper use of poison-bottles. Now that these receptacles are more common, people often bring them as containers of remedies for internal use. This, it was stated in the letter, negatives the intention of using poison-bottles, and such action "should be made illegal and punishable."

The PRESIDENT proposed that this be sent to the Law Committee. It might be dealt with by regulation.

Mr. ROGERS said that only the previous day he received a poison-bottle with a request to fill it with a harmless tincture. The customer at first was indignant when he (Mr. Rogers) refused to do as he requested, but when the matter was explained was profuse in his thanks.

Mr. GILMOUR said the practice referred to is of everyday occurrence.

Mr. CROSS said the public do not always realise that the regulations are made for their benefit.

THE SALE OF MEDICATED WINES.

A rather strongly worded resolution was received from Dr. Reid, of Glasgow, which had been passed at a meeting of local doctors. It was to the effect that attention should be called to the disastrous effect of the sale of medicated wines in encouraging secret drinking, especially among women, and called upon medical colleagues and the "Royal" Pharmaceutical Society to take into consideration the steps that can be taken to discourage the sale of medicated wines.

The resolution was laid on the table.

OTHER LETTERS.

The Privy Council expressed approval of the appointment of examiners for 1912. The Council also referred to the Society's objections of April 10 in regard to proposed new regulations under Section 2 (3) of the Poisons and Pharmacy Act, 1908, and stated that the Society's objections possess no legal force. Another letter forwarded copies of the order that has since been made under Section 2 (3).

The General Medical Council wrote calling attention to the Pharmacopœia Committee's thanks for the courtesy of the Society in making arrangements to facilitate the work of Professor Greenish as an editor of the British Pharmacopœia.

The London Chamber of Commerce forwarded a copy of a report of the special committee on misrepresentation in trade which is to be dealt with by the Law Committee.

The Newcastle-on-Tyne Association wrote urging upon the Council the importance of securing representation of pharmacists on the Health Committees. The Secretary was instructed to send to the Association a copy of the report of the Parliamentary and General Purposes Committee.

The Royal Institute of Public Health invited the appointment of delegates to the Berlin Congress of 1912. The Library Committee are to consider this.

The examiners appointed at the last meeting sent letters of thanks.

The Eastbourne Pharmacists' Association thanked the Council for sending Mr. Neathercoat to their meeting on November 3.

The Association of Women Pharmacists thanked the Council for the use of the Society's premises for the purpose of their annual meeting.

THE BRITISH PHARMACEUTICAL CODEx.

The final business was a vote of thanks to the members of the "Codex" sub-committee on the publication of the new edition of that work.

The PRESIDENT, in moving this, dwelt at some length on the origin and features of the book, and Mr. Currie, in seconding, referred to the work of Mr. Woolcock in connection with the book.

Mr. HARRINGTON and Mr. CROSS also spoke in praise of the work of the sub-committee.

This ended the public business.

TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £s) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal," November 29, 1911.)

- "UTOCOLOR": for photographic chemicals, plates, and films (1). By Société Anonyme Uto-color, 21 Rue de la Pointe, La Garenne, Colombes. 336,632.
- "KUREXOL": for an ointment for dogs and cats (2). By Rita Thompson, 30 Station Road, Portslade, Brighton. 335,816.
- "WAXAW": for all goods (2) and for medicated soap (3). By Lever Bros., Ltd., Port Sunlight, Cheshire. 336,372/3.
- "VINBOFER": for medicated wine (3). By T. M. Lamb & Co., Castle Hill, Lancaster. 335,577.
- "TRAUMUGIEA": for medicinal chemicals (3). By Brady & Martin, Ltd., Northumberland Road, Newcastle-on-Tyne. 335,603.
- "ULVO ULKO": for medicines (3). By All England Family Drug Supply Co., 97 Somerville Road, Bristol. 336,253.
- "COD-LIV-ROL (TRAYSER)" and label device with cod-fish; for cod-liver oil (3). By Max E. Trayser, 68-69 Shoe Lane, London, E.C. 336,503.
- "CRESSINTHE": for a medicinal liquor (3). By J. M. Lafon, 13 Boulevard St. Germain, Paris. 337,094.
- "TENOSIN," for medicinal chemicals (3); "ORTIZON," for a pharmaceutical preparation (3). By Bayer Co., Ltd., 20 Booth Street, Manchester. 337,112, 337,413.
- "HEIDIOSIT": for medicinal chemicals (3). By Meister, Lueius & Bruning, Hoechst/a Main. 337,239.
- "DUTCH MILL BRAND" and picture of windmill; for stearine, oleine and glycerin (4) and for toilet-glycerin (48). By Stearine Manufacturing Co., Bleekerskade 47 and 49, Gouda, Holland. 336,333, 336,335.
- "PHOSTO": for food-substances (42). By A. Hartley, Trentham House, Tower Street, Emsworth. 337,319.

The Drug Club.

THE annual meeting of the Drug Club was held in London on Tuesday, December 5, Mr. John C. Umney, F.C.S. (managing director of Wright, Layman & Umney, Ltd.), President, in the chair. The business transacted included the election of officers for the ensuing year. Mr. Umney, who has been President for three years, proposed as his successor Mr. William P. Evans, of Liverpool, and, to succeed Mr. Evans in the vice-presidency, Mr. Chas. A. Hill, B.Sc., F.I.C., who has been Secretary during the past



MR. W. P. EVANS.



MR. T. E. LESCHER.

three years, was elected. Mr. T. Edward Lescher, 60 Bartholomew Close, London, E.C., was appointed Secretary. The members dined together in the Piccadilly Restaurant, for the first time in that new rendezvous, and were much pleased with all the arrangements. Mr. Evans presided, and there was a full company of the members, including a few guests, among them Mr. Bole and Mr. Tinley, of the National Drug and Chemical Co. of Canada, Ltd., who are on a visit to this country.

Mr. W. P. Evans is the third of the sons of the late Mr. Edward Evans, J.P., D.L., to be President of the Drug Club, and he comes to the position with ripe experience of such duties, being Chairman of the Bidston-cum-Ford Parish Council and Chairman of Bidston Hill Management Committee in connection with Birkenhead Town Council. In 1874, when sixteen years old, he entered the business of Messrs. Evans, Sons & Co. in Liverpool, duly became a partner, and when it was converted into a company as Evans Sons Lescher & Webb, Ltd., he took his seat on the board as a senior director. His son, Mr. E. Herbert Stanford Evans, is an apprentice to the company.

Mr. Hill, the new Vice-President of the Club, is of the third generation of his family who have been connected with the Club, his father, the late Mr. A. B. Hill, having been President in his day, and his grandfather, the late Mr. A. S. Hill, was one of the founders of the Druggists' Club, founded about 1830, which lapsed in 1846, and was resuscitated in its present form by the late Mr. R. Bankes Barron. He was also a founder of the Pharmaceutical Society of Great Britain. Mr. C. A. Hill is managing director of The British Drug Houses Ltd.

Mr. T. Edward Lescher, the new Secretary, is the grandson of the late Mr. J. Sydney Lescher, one of the founders of the Pharmaceutical Society, and son of Mr. F. Harwood Lescher, a former President of the Drug Club. Like his father, Mr. Lescher is a "Square" man, and has travelled abroad in the interests of his company's business. He is a director of Evans Sons Lescher & Webb, Ltd., and assists in the management of the London house.

DR. WALDO held an inquiry on December 7, under the City Fire Inquests Act, into the circumstances attending the outbreak which occurred on the premises of Messrs. Barclay & Sons, Ltd., in Seacole Lane, Farringdon Street, London, on November 22. Mr. G. R. Barclay was one of the witnesses, and at the conclusion of the evidence the jury found that the cause of the fire was unknown.

Society of Public Analysts.

AT the meeting held in the Chemical Society's Rooms, Burlington House, London, W., on Wednesday evening, December 6, Mr. A. R. Ling, F.I.C., F.C.S., presiding, a paper was read by Mr. J. C. Brown on

THE DETERMINATION OF ESSENTIAL OIL IN SPICES, ETC.

In this the author described the results of a number of experiments on several essential oils, including coriander, cardamoms, bay, eucalyptus, pimento, origanum, santal, cedar, and rosemary, based on the process he described in a previous paper read before the Society. The process involved the volatilisation in a current of pure oxygen or air of the volatile constituents of the sample, and their subsequent passage over red-hot copper oxide in a combustion-tube, collecting the CO₂ in potash bulbs and weighing it. From experimental determinations on type samples of the various essential oils, he claimed to be able to calculate from the average "carbon number" the amount of essential oil present in the sample. In the case of oil with high-boiling constituents a considerable amount remained unvolatilised—*e.g.*, cedar and santal oils. He therefore proposed to correct for this by adding one-sixth to the result experimentally obtained. Average values for the oils in question were quoted.—In the course of a discussion Mr. E. J. Parry said he considered the process useless, because it was based on inaccurate data, of which he gave examples.—Mr. C. A. Hill pointed out that eucalyptus oil contains from 55 to 75 per cent. or more of eucalyptol, so that it is impossible to fix an average "carbon value." The Chairman said it was apparent that the weakness of the process depended on the fact, as Mr. Parry had pointed out, that no average values for given oils are possible.

Mr. E. J. Parry, B.Sc., F.I.C., in a communication on
OIL OF MALE FERN,

referred to the adulteration of this extract with castor-oil, and gave the results of the examination of genuine extracts prepared by Messrs. Wright, Layman & Umney, Ltd., showing that unadulterated extract should show the following figures:

Sp. gr. at 15° C. not below 1.000, and is usually up to 1.025.

Refractive index at 20° C.—The product being too dark for examination, the extract may be diluted with an equal volume of castor-oil of known refractive index, and the correct value for the extract calculated. This is never below 1.5000, and may rise to 1.5090.

Solubility in Petroleum ether.—Pure extract dissolves completely, with the exception of a little flocculent matter which is deposited. No oily matter should remain insoluble.

Saponification-value.—This figure should not fall below 230, and may rise to 250. The amount of unsaponifiable matter does not fall below 8 per cent., and usually varies between 9 and 11 per cent.

Fatty Acids.—The mean molecular weight of the fatty acids obtained from the saponification liquor varies from 240 to 255.

Crude Filicin.—This is determined by the method of the Swiss Pharmacopœia (see *C. & D.*, November 18, index folio 749).

By this process the amount of filicin is sometimes as low as 22 per cent. in pure samples, but 22 to 29 per cent. should cover all pure samples.

Mr. Parry has examined about twenty samples obtained from various commercial sources, all being sold as guaranteed pure and "B.P." They all had very similar characters, of which the following are typical:

	1	2	3	4	5	6
Sp. grav. at 15°	0.973	0.973	0.983	0.975	0.974	0.975
Ref. ind. at 20°	1.4840	1.4840	1.4930	1.4785	1.4870	1.4870
Sap. value	210	208	221	207	197	200
Fatty acids:						
molecular weight	230	232	274	231	183	216
Unsaponifiable matter	3.8%	4%	4.6%	3.4%	3.5%	3.4%
Crude filicin	8.8%	9.2%	10.8%	8.4%	8.6%	9.0%

In every case (except one) the samples, when well shaken with 10 volumes of petroleum ether and allowed to settle, deposited from 60-100 per cent. of their volume of a heavy fatty oil of green colour (due to added chlorophyll), which was found to be castor-oil, a fact determined by shaking the deposit oil with petroleum ether, when the bulk of the male-fern extract was removed and the oil obtained in a

moderately pure state. Its specific gravity, refractive index, and acetyl value corresponded with those of castor-oil.

Mr. F. C. J. Bird agreed with Mr. Parry's figures generally, but had found 17.5 per cent. of filicin in a pure extract prepared by himself. He thought, therefore, that 22 per cent. was just a little too high for a minimum.

Mr. C. A. Hill said that the adulteration has been an open secret for some months past in the London drug-trade. He thought that 22 per cent. of filicin is a fair average value. The Chairman thought that the exposure of this adulteration by Mr. Parry would be of the greatest possible value.

International Opium Conference.

THE International Opium Conference was opened at

The Hague on December 1 by Dr. Van Swinderen, Dutch Minister of Foreign Affairs. Twelve nations are represented at the Conference, comprising Great Britain, Germany, France, Holland, Italy, Russia, Portugal, China, Japan, Persia, Siam, and the United States, all the Powers being represented on the Shanghai Commission of February 1909. Turkey was especially invited to take part, but declined. The Right Rev. C. H. Brent, Bishop of the Philippines, who presided over the Shanghai Congress, was elected President, and in accepting the honour, referred to the great problem involved in the opium question. He believed the Shanghai Conference pointed the way for the legislation to be adopted, and he hoped that the legislative Act which would result from the work of the Conference would have the opinion of the whole world behind it. The Dutch Foreign Minister, in his speech, paid a tribute to the American Republic for its initiative in calling the Conference, and thanked the United States delegates for the trouble taken in drawing up the memorandum. The Minister declared that the resolution adopted at Shanghai would form the basis of the final convention, and that in accordance with the wish of Great Britain—a wish which, he said, was greatly appreciated—the deliberations would include questions affecting the use not only of opium, but also of morphine and cocaine. In reporting the opening meeting, "The Times" correspondent gives particulars of the scope of the inquiry and a tentative programme to which allusion has been made on several occasions in THE CHEMIST AND DRUGGIST. In order to refresh the memories of our readers, it may be recalled that the initiative of the present Conference, following upon that of Shanghai, was taken by the United States, who, on September 1, 1909, addressed a circular letter to the Powers proposing legislation. Since then the proposed inquiry has gradually broadened as the result of opinions expressed by Great Britain and others, and, as already indicated, will include the discussion of international measures against the manufacture of and traffic in morphine, cocaine, and Indian hemp drugs. The American Government's circular suggested fourteen proposals for discussion. Some Powers, while generally accepting the proposals, reserved the expression of their individual views for the Conference; others, including France, China, and Great Britain, made specific reservations in advance. When the Conference resumed its sittings on Monday the Programme Committee decided to draft eight resolutions dealing only with opium and following generally the basis laid down by the Shanghai Commission. It was agreed to omit six of the fourteen subjects suggested for discussion in the American programme. These include (1) the reciprocal right to search vessels; (2) the establishment hereafter of an internal commission; (3) a self-denying agreement by countries at present not producing opium; (4) the examination of existing treaty obligations and international agreements regarding the opium traffic. The latter resolve is the outcome of the British Government's objection to discuss the arrangements already made for the progressive extinction of the Indo-Chinese opium trade. In deference to the views of the Portuguese delegates and in the interest of the Colony of Macao, it was decided to treat boiled opium as distinct from raw opium. French has been agreed upon as the official language, but some delegates have no knowledge of French.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., December 7.

BUSINESS has been quiet in drugs since our last report, but in the heavy-chemical markets demand is fully maintained. Changes in value are more numerous than usual, the chief being a not unexpected decline in quicksilver, followed by one of 1½d. per lb. in mercurials. Pure lactic acid has advanced 4d., technical being unaltered. Vanillin is firm, all the makers being now in the convention. Quinine is steady, interest centring in the large auction of bark at Amsterdam. Opium is firmer in Turkish primary markets, with slightly more business. Copper sulphate has sharply advanced for prompt. Full prices have been paid for cardamoms and seed for export. Castor oil is easier, as is cod-liver. Copaiba tending firmer. Acacia gums are steady. Ipecacuanha is firm but quiet. Lycopodium a shade easier. Grey Jamaica sarsaparilla is scarce and wanted. New crop Para tonka beans are lower. Cocoa butter was lower at the Dutch auction. Alterations in essential oils include a decline in clove oil and an advance in sandalwood. Star anise, cassia, and the Sicilian essential oils are all quiet. The chief changes are as under :

Higher	Firmer	Easier	Lower
Bayberry	Copaiba	Castor oil	Clove oil
Copper	Euonymus	Cinnamon	Cocoa-butter
sulphate	Jalap	chips	Formaldehyde
(prompt)	Wahoo	Cod-liver oil	Mercurials
Hydroquinone		Grindeha	Quicksilver
Lactic acid		robusta	Tonka beans
Opium		Lycopodium	(Para)
Sandalwood oil		Saffron	Vermilion
Wax (Jap. veg.)			

Cablegrams.

SMYRNA, December 6.—The sales of opium amount to 40 cases, comprising old at 28s. 6d.; sellers have now withdrawn, asking 29s. 9d. for old and 28s. 6d. for new.

NEW YORK, December 7.—Business in drugs is quiet. Opium is steady at \$8.00 per lb. for druggists'. Peppermint oil in tins is dull at \$2.85. Round buchu is firm at \$1.00. Ipecacuanha is scarce at \$2.30 for Cartagena. Cascara is quiet at 9c. Copaiba is firm at 48c. Senega is steady at 60c., and balsam tolu is firm at 60c. per lb.

London Markets.

ACETANILIDE is quoted at 10d. per lb. net for crystals in 5-cwt. lots and at 10½d. net for 1 cwt.

AGAR-AGAR is steady at 1s. 9d. per lb. spot for No. 1 Kobe strip and 1s. 8d. for No. 2.

ALCOHOL.—German potato-spirit remains very firm, with no prospect of lower prices for this year. Present quotation is 11d. to 1s. per proof gal., delivered in bond in casks or drums.

AMERICAN DRUGS.—The following are current quotations of a few of the more important barks, herbs, leaves, and roots on c.i.f. terms to arrive, unless otherwise stated: *Barks*, bayberry, 30s. per cwt.; black haw of root, 1s. per lb.; dogwood, 4½d.; elm, 5d.; euonymus, 2s. 2d.; sassafras, 8d.; wahoo, 2s. 2d.; wild cherry, 4½d. net (on the spot);

witch-hazel, 3d. *Herbs*, lobelia, 4½d.; scullcap, 1s. *Leaves*, damiana, 8d. net (on the spot); witch-hazel, 3d. *Roots*, burdock, 6d.; elecampane, 6d.; gelsemium, 3½d.; hydrastis, 21s. per lb.; culvers, 7d.; mandrake, 32s.; blood, 4½d.; and serpentaria, 1s. 8d. net (on the spot).

ANISE OIL (STAR) is steady at 5s. 9d. per lb. for Redd Ship on the spot, and to arrive there are sellers at 5s. c.i.f.

BELLADONNA-ROOT.—True is offered at 35s. per cwt. c.i.f. BUCHU remains unaltered, without business. A single bale of good green round, for which 4s. 1d. was refused in auction last week, afterwards sold privately at that price.

CAMPHOR.—Japanese refined is firm, with sales of ¼ oz. tablets at 1s. 7½d. c.i.f. Continent for January-February shipment; there are buyers of 2½ lb. slabs to arrive at 1s. 6d. c.i.f. China crude is offered at 155s. spot in retail lots, and at 140s. c.i.f. for arrival.

CARDAMOMS.—A good business has been done, principally for export to the Continent, at up to 4s. for good bold, and 3s. 2d. for decorticated seed.

CASCARA SAGRADA.—New crop is quoted 41s. and four-year-old at 42s. 6d. per cwt. on the spot. Small sales are reported.

CASSIA LIGNEA.—At auction 200 boxes new import sold at from 45s. to 45s. 6d. without reserve for fair selected; 62 bags Japanese broken cassia were bought in at 20s.

CASSIA OIL.—Very quiet. Spot values are: 80 to 85 per cent. c.a., 4s.; 75 to 80 per cent., 3s. 10d.; and 70 to 75 per cent., 3s. 8d. To arrive, 3s. 7½d., 3s. 5d., and 3s. 3d. c.i.f. is quoted respectively.

CASTOR OIL.—Hull make is easier at 30l. per ton in barrels for prompt delivery, and 28l. 10s. for January-June delivery, free on wharf London. Belgian make is 29l. 10s. for first-pressing for prompt delivery, ex wharf London. In Liverpool good seconds Calcutta is quoted at 4d., and to arrive at 3½d. per lb.

CASTORUM.—The exact quantity to be offered by the Hudson's Bay Co. on Wednesday next is 1,554 lb.

CHEMICALS (VARIOUS).—The following are current London spot quotations (except where otherwise stated) for some of the leading chemicals:—

Alum, lump 6l. 2s. 6d. and powdered 6l. 12s. 6d. per ton in ton lots. Caustic soda, 70 per cent. white, 10l.; 60 per cent., 9l. Bicarbonate of soda, 5l. 12s. 6d. in kegs. Soda crystals, 55s. in barrels, 52s. 6d. in bags. Borax, 16s. for crystals and 17s. for powder; boric acid, 25s. for crystals and 27s. for powder. Oxalic acid, 2½d. to 2¾d. net, delivered free London. Potash chlorate, 3¾d. for either crystal or powder. Potash prussiate, foreign 4½d., and soda 3d. Potash bichromate, 3¾d. London, 3¼d. f.o.b. Glasgow. Potash cyanide, 8½d.; double salt, 7d. Sodium cyanide, 128 to 130 per cent., 7d. per lb. on basis of 100 per cent. Cream of tartar, 98 per cent., 86s. to 87s.; 95 per cent., 84s. to 85s. Citric acid, English 1s. 5¼d., foreign 1s. 5d. Tartaric acid, English 1s. 1d., foreign 1s. 0¾d.

CHILLIES.—At auction 31 bags East African were bought in at 45s. per cwt.

The cultivation of Zanzibar chillies is, according to the "Times of Ceylon," about to be commenced in Ceylon, the Agricultural Society having just received a consignment of seeds for members. Some members, it appears, are thinking of going into extensive cultivation of this species. The idea is to plant this chillie for export to the London market.

CHIRETTA.—Small lots are available at 9d. per lb., which price has been paid; 10 packages have arrived from Calcutta.

CINCHONA.—The shipments from Java to Europe during November amounted to 1,588,000 Amst. lb., against 1,590,000 Amst. lb. during November 1910. The total shipments (January to November) were 15,428,000 Amst. lb., against 16,686,000 Amst. lb. in 1910, or 1,258,000 Amst. lb. less. The average unit paid at the Amsterdam bark auction held to-day was 3.10c., against 3.07c. in November; 9,220 packages were sold.

CINNAMON.—At auction 25 cases Tillicherry sold at 1s. 1d. for good firsts and at 1s. for seconds, without reserve; 160 bags Ceylon chips sold at 2½d. for fair dullish and 2¼d. for dusty coarse, without reserve.

CLOVE OIL.—The lower prices for cloves have brought quotation for best English oil down a further 3*d.*, distillers offering at 4*s.* per lb. and 3*s.* 10*d.* in quantity.

CLOVES.—At auction 336 bales Zanzibar sold without reserve at 5*d.* to 5½*d.* per lb. for about fair and at 4½*d.* to 4¾*d.* for dampish and matted, being cheaper; ten cases Penang were bought in at 1*s.* for fair. Privately spot sellers quote 5¾*d.* for new crop; arrival prices are firmer, the sales including October-December, November-January, and January-March at 4¾*d.* and buyers.

COCOA-BUTTER.—At auction at Amsterdam, 100 tons Van Houten's sold at 73.13*c.*, against 80.11*c.* at the previous sale; 80 tons B quality sold at 67.70*c.*, and 63 tons other brands at 67½*c.* to 69½*c.*

COD-LIVER OIL.—The inquiry is small, with prices distinctly easier, finest Norwegian non-congealing oil offering at 105*s.* to 109*s.* per barrel c.i.f. London.

Our Bergen correspondent writes on December 4 that the nominal quotation for finest non-congealing Lofoten is unaltered at 108*s.* 6*d.* per barrel, c.i.f. terms. The total exports from all Norway to the end of November amount to about 36,100 barrels, against 33,400 barrels at the same date of 1910.

COPAIBA.—With continued scarcity in all markets prices are firmer at from 2*s.* 1*d.* to 2*s.* 2*d.* per lb. net for filtered B.P. *Para* in kegs is quoted 2*s.* 8*d.* c.i.f. *Copaiba oil* is offered at 5*s.* 1*d.* per lb. c.i.f.

COPPER SULPHATE for prompt delivery has advanced to 23*l.* 5*s.* per ton for prompt, for ordinary Liverpool brands, February-April being unchanged at 23*l.* 5*s.* to 23*l.* 10*s.*

DIASTASE is offered at 16*s.* per lb. net in 1-lb. bottles, being slightly cheaper.

DIETHYL-BARBITURIC ACID is easier at 23*s.* per lb. net for 1-lb. lots.

DRAGON'S-BLOOD.—Small sales of good reboiled Singapore lump have been made from second-hands at 12*l.*, there being nothing in first hands. Twelve cases of so-called Zanzibar drop have arrived.

ELECAMPANE ROOT has been selling more freely on the Continent; 36*s.* per cwt. c.i.f. is quoted for shipment.

ERGOT.—Quiet and unaltered, Russian on spot being obtainable at 5*s.*, and for December shipment 4*s.* 6*d.* c.i.f. is quoted. No Spanish appears to be available.

A Hamburg report states that nothing definite so far can be ascertained as to the size of the new Russian crop, and high prices have had to be paid for the small offerings; stocks of Spanish are also limited, and holders ask high prices. German has been gathered to a large extent this season, and as some holders are in need of money, prices of such have declined to the equivalent of 4*s.* 1*d.* net cash. [We understand most of these lots have been disposed of.]

ESERINE.—Business has been done at 5*s.* per gramme for sulphate and salicylate salts.

FORMALDEHYDE is cheaper, 40-per-cent. offering at 36*s.* 6*d.* per cwt. net in carboys, and 1*s.* less in casks.

GRINDELIA ROBUSTA is slightly easier at 6½*d.* per lb. c.i.f. to arrive.

GUARANA in case-lots is offered at 6*s.* 6*d.* per lb. c.i.f. terms.

GUM ACACIA.—Sudan sorts are steady, the value of fair half-hard sorts being 50*s.* on the spot, and to arrive new crop for January-February shipment is quoted 46*s.* per cwt. c.i.f. Supplies of Aden and Ghatti descriptions are scarce and wanted. Senegal gum is also scarce, the value to arrive of Bas de Fleuve being still 48*s.* per cwt. f.o.b. Bordeaux.

HYDROQUINONE has advanced 1*d.* per lb. to 2*s.* 4*d.* net in 14-lb. lots, and 2*s.* 2*d.* net in 28-lb. lots.

IPCACUANHA is firm, with retail sales from second-hands at 9*s.* for Matto Grosso. Minas is quoted 8*s.* 9*d.* to 9*s.*, and Cartagena 9*s.*

JALAP.—From Hamburg high-testing parcels are offered at 2*s.* 4½*d.* for 24.4 per cent., 2*s.* 1¾*d.* for 22 per cent., 1*s.* 5½*d.* for 16.4 per cent. and 14.3 per cent. The London spot market has been cleared of all the cheaper parcels, and the lowest is now 1*s.* 4*d.* for 10 per cent.

LACTIC ACID.—The chemically pure has advanced by 4*d.* per lb., prices ranging from 2*s.* to 2*s.* 5*d.* per lb. as to quantity. Technical quality is unchanged.

LEMON OIL.—A Palermo message of December 2 reports spot oil as unaltered. A few orders for small quantities have been received from consumers abroad, but they were filled without difficulty; on the other hand, local speculators in new crop are doing their best to obtain better prices. In fact, they have been proposing to buy forward conjointly new crop for delivery early next year at about unchanged figures, and for delivery in April-May at a rather heavy premium. As growers are always optimistic as to the possibilities of the price of their goods, this manœuvre had the effect intended—i.e., to stop entirely the selling disposition. Market has, therefore, been inactive and the position unsettled and strained. For forward shipment 5*s.* c.i.f. is quoted.

LYCOPORIUM.—Russian of treble-sifted quality is a shade easier at 1*s.* 9¾*d.* per lb. net c.i.f. in cases.

MENTHOL.—With a continued difficulty in obtaining supplies, business is confined to sales of broken and case lots. Suzuki is quoted 26*s.* 6*d.* and Kobayashi 28*s.* to 29*s.* spot, holders showing a stiffer attitude as the result of the public sale at 30*s.* last week. For October-December shipment Suzuki is quoted 21*s.* 6*d.*, and January-March 18*s.* 6*d.* c.i.f. from second-hands. Importers quote menthol and oil combined for February-March shipment at 27*s.* 6*d.* c.i.f.

MERCURIALS.—As a result of the reduction in quicksilver, makers of mercurials announce a reduction of 1½*d.* per lb., the list prices and for lots below 2 cwt. being as follows: White precipitate, 3*s.* 4*d.*; corrosive sublimate, 2*s.* 8½*d.*; calomel, 3*s.* 0½*d.*; red precipitate, 3*s.* 4*d.*; yellow oxide B.P., 3*s.* 6½*d.*; white sulphate, 2*s.* 8½*d.*; and sulph. nig., 2*s.* 8½*d.* per lb. Lots of not less than 2 cwt. and under 10 cwt. are subject to a reduction of ½*d.*, and for 10 cwt. and upwards a further ½*d.* per lb. is granted.

MUSK.—Tonquin pod is scarce, the value of fine thin-skin blue pod being 72*s.* 6*d.* per oz. Russian Cabardine is offered at 19*s.* and China at 25*s.* per oz.

OPIMUM.—A cable from Smyrna on Wednesday indicated sales of about 40 cases at an advance of about 6*d.* per lb., up to 28*s.* 6*d.* c.i.f. having been paid for 11.75 per cent. Turkey druggists' on the spot is quoted 17*s.* nominally. Persian is also nominal in the absence of offers. At the moment interest centres in the Opium Conference at The Hague, discussions at which will probably last to the end of the year.

A Smyrna correspondent writes on November 24, reporting a very active week, with sales amounting to 112 cases old and new extra-selected Yerli, current and common grades. Quotations to-day are as follows: Common grades of uncertain strength, 15*s.* to 23*s.*; new usual run current qualities (about 10 per cent.), 24*s.* 6*d.*; new extra Karahissar selected (11¼ per cent.), 26*s.* 3/4; new Yerli fine selected paste (13 per cent.), 30*s.*; old extra Karahissar selected (12 per cent. to 12½ per cent.), 28*s.*; ditto (about 11½ per cent. to 11¾ per cent.), 27*s.* 3/4; ditto, mixed qualities (11 per cent. to 11½ per cent.), 26*s.* The dry weather continues, and many complaints come from farmers reporting that no progress has yet been done with the sowings. Sellers are very firm and tenacious, preferring not to part with any of their stocks, as they fully expect to see several shillings per lb. advance soon. The arrivals in Smyrna amount to 930 cases, against 4,026 cases at same date last year.

ORANGE OIL.—A Palermo message of December 2 reports that the local upward movement has not found any support abroad, and the easier tone continues; for shipment, *sweet* is quoted 7*s.* 9½*d.* and bitter 8*s.* per lb. c.i.f.

PEPPERMINT OIL.—American remains quiet at 12*s.* 6*d.* net for good brands of tin-oil, 14*s.* 3*d.* net for *Todd's* crystal white, and 15*s.* 6*d.* London terms for H.G.H. Japanese is 8*s.* for Kobayashi and 7*s.* 6*d.* reported paid for Suzuki.

QUICKSILVER.—The recent widening of quotations between first-hands and second-hands presaged a decline, which took place on Tuesday, the Baron reducing his price by 7*s.* 6*d.* to 8*l.* 2*s.* 6*d.* per bottle, second-hands not offering to-day. See also mercurials.

QUILLARIA is quiet but steady, Liverpool quoting 22*l.* to 22½*l.* 10*s.* per ton.

QUININE.—Market is overshadowed by the bark auction at Amsterdam to-day (Thursday), when the equivalent of 68½ tons of "quinine in the bark" was offered. Current London quotations are: German sulphate from makers 7½*d.*, second-hands 7¼*d.*, Amsterdam 7*d.*, and Java 7*d.* per oz.

RHEUBARB.—Common rough round High-dried is offered at 7½d. per lb. c.i.f. terms, and flat High-dried 9½d. on the spot.

SANDALWOOD OIL.—As the result of higher prices paid for sandalwood at the Mysore auctions prices have advanced about 1s. per lb. from their lowest. In quantities of at least 500 lb. 10s. 6d. per lb. will buy English distilled from E.I. wood.

SARSAPARILLA.—Vera Cruz from Hamburg is offered at 8½d. per lb. c.i.f. terms. Supplies are exceedingly small; on the spot, grey Jamaica is inquired for, but in its absence buyers have to fall back on Lima; Native Jamaica is also inquired for.

SENEGA.—Retail spot sales are reported at 2s. 7d. net, indicating a firmer market; from 58c. to 60c. is quoted in New York.

SHELLAC.—At auction 493 cases offered and 471 sold without reserve at steady prices, including fine second orange, slightly matted, 75s.; fine pale hard blocky, 73s.; good seconds, matted to blocky, 65s. to 67s.; good reddish seconds, 66s.; fair reddish TN quality, slightly matted, 61s.; ordinary livery, matted and blocky, 57s. to 58s.; 62 cases Garnet sold at 58s. for hard cakey and blocky A.C., and 32s. for common resinous cakey to blocky; 14 cases *Button* sold at 85s. for fine pure stamped A's and 77s. to 78s. for good No. 2. Privately market is steady but quiet at 62s. for TN on spot, and sellers of December-January shipment at 62s. c.i.f., and A.C. Garnet for January-February steamer at 59s. c.i.f., which has been paid. Futures have been steady, sales comprising December delivery at 63s. to 62s. 6d., March at 65s., and May at 66s. 6d. to 66s. and buyers.

SOY.—For Wochan brand 1s. 4½d. per gal. has been paid.

SFERMACETL.—American refined is offered at 1s. per lb. spot.

TAMARINDS.—Several parcels of East Indian have arrived, including one of 43 casks; the spot price of fair Calcutta is 12s. West Indian are firm and scarce; up to 13s. in bond has been paid for Antigua, and Barbados are wanting.

TONKA BEANS are cheaper, frosted Para offering at 7s. 6d. to 8s., and black Para just arrived can be had at 4s. 6d. per lb.

TURPENTINE OIL.—After a series of fluctuations (touching 36s. 4½d. on Tuesday) American slipped back to 35s. 9d. on Wednesday, closing to-day at 36s. and 36s. 6d. January-April.

VANILLIN.—The fact that the combination now includes all the makers gives a firm tone to this market, and the full official rates are being paid. Makers are speeding up buyers to take up their contracts, and deliveries not taken up by the end of the year are to be cancelled. The convention prices are from 13s. 10d. to 15s. 2d. per lb., according to quantity.

VERMILION has been reduced 1d. to 2s. 7d. per lb., and 2s. 6d. in quantity.

WAX.—Japanese has advanced about 2s. per cwt., November-December shipment to the Continent having been done at 40s. 6d. c.i.f.; spot is quoted 40s. 6d. to 41s.

WAX, CARNAUBA.—The value of waxy grey is now from 150s. to 155s. per cwt. on the spot.

Manchester Chemical Market.

December 3.

Attendance on the Chemical Exchange was fairly good, and it is anticipated that the returns of exports will again show an increase on the previous month and also as compared with last year. Heavy chemicals are very steady. In regard to sulphate of copper, the position is peculiar; the raw material continues to appreciate and foreign demand is on the increase, consequently there are again higher prices to note on the week. Generally the quotation is 23½ 7s. 6d. to 23½ 12s. 6d. per ton for best brands, delivered Manchester. Acetates of lime rule quiet at 6½ 12s. 6d. for brown, and 10½ 5s. per ton, c.i.f., for American grey. Yellow prussiate of potash remains steady at full rates. Recovered sulphur also steady. Glauber salts, 42s. 6d.; Epsom salts, 60s. per ton, in bags, and 65s. to 80s. per ton (casks and barrels) for export. Black oxide of manganese, 94 per cent., 28½ to 30½; 86 to 87 per cent., 6½; 80 to 85 per cent., 5½ 10s.; 70 per cent., 5½ 5s.; and 60 per cent., 4½ 5s. per ton Prus-

siate of soda, 2½d. to 3d. per lb. Official quotation for c.p. glycerin is 106½d. per ton for 5-ton lots of s.g. 1.260, and 108½ to 109½d. per ton, in tins and cases, in not less than 5-cwt. lots. Coal-tar products are steady. Sulphate of ammonia lower at 13½ 15s. to 14½ per ton, f.o.r. Manchester. Benzols and carbolic acid are firm.

Heavy Chemicals.

The tone of the heavy-chemical market continues on the firm side, and fair business is being done both for prompt and forward. The bulk may not be equal to that done a short time ago, but it is certainly more than a full average for the season. Calls against existing contracts are in the majority of cases on the full side. Values call for little special comment, but when considering these the point that manufacturers are under increased and increasing expenses must be kept in view.

ALKALI PRODUCE.—Main products have met with a very steady demand. Bleaching-powder is on the scarce side and moving well. Ammonia alkali and soda-crystals in brisk request and firm. Saltcake and prussiates are better, while caustic soda has been active, particularly on export account.

SULPHATE OF AMMONIA keeps quiet, with a fair business on prompt account. There is a fair inquiry on forward account, but the higher prices asked prevent business. Present nearest figures: Beekton, prompt, 25-per-cent. ammonia guaranteed, 13½ 17s. 6d.; London terms, 13½ 10s.; Leith, 14½ 5s. to 14½ 7s. 6d.; Liverpool, 14½ 5s.; and Hull, 14½ 3s. 9d.

STRONTIUM SALTS are in fair average request and do not fluctuate much. Precipitated carbonate of strontia, 90 to 95 per cent., 11½ to 12½ 10s. per ton, according to quantity, etc. Mineral carbonate of strontia, lump, 87 to 91 per cent., 14½; and smalls, 80 to 85 per cent., 12½. Hydrate strontia-crystals, in casks, 9½ to 9½ 15s. per ton.

MAGNESIUM SALTS are steady in demand and value. Sulphate, 62s. 6d. to 67s. 6d. per ton; chloride, 67s. 6d. to 70s. per ton; and carbonate, 30s. to 35s. per cwt.

ZINC SALTS are firm in tone, and the demand is very steady. Zinc-sulphate crystals, 7½ to 7½ 10s.; and zinc-chloride solution, 100° Tw., 6½ 5s. to 6½ 10s. per ton.

Continental Drug and Chemical Markets.

AMMON. CARB.—The steady condition of raw material induced makers to announce the probability of a rise in prices. An early fulfilment of the tendency is likely to take place, as a further rise is announced in the raw material by m.12 per 100 kilos. for 1912.

AMMON. CHLOR.—The advance in raw material has also influenced this product. Makers are now quoting from m.46 to m.48 per 100 kilos. for technically pure, whereas chemically pure is quoted at m.55 per 100 kilos. The advance has not yet become very perceptible, as second-hands are still operating on contracts concluded at lower rates.

GLYCERIN.—The general tendency of the market is steadier, though prices are little affected thereby. In some quarters the low prices hitherto quoted of from m.160 to m.165 per 100 kilos. for double-distilled (28°) are still met with, although elsewhere an advance of several marks per kilo. is reported. An improvement in the situation is also attested by the fact that on the Paris Bourse an advance of fr.2.50 has taken place. The general situation is unaffected by the fact that second-hands are still offering at low prices, the quantities dealt in being negligible. The German Glycerin Convention has recognised that the International Standards Methods of 1911 for the analysis of crude glycerin is the most accurate, and has determined to introduce this method as far as possible.

POTASH PRUSSIATE.—The low value which has now lasted over a year improved recently, and the quotation is now m.85 per 100 kilos. This price is still held to be unremunerative, and a further advance may be expected.

TIN OXIDE has again been advanced by m.10 per 100 kilos.

American Drug-market.

New York, November 28.

General conditions prevailing in the New York drug-market have altered little during the interval, business being transacted along conservative lines under steady prices for immediate and contract supplies. Price changes have been few. Hydrastis and peppermint oil are in easier tendency; opium and morphine have advanced.

ALOES.—Shipments for this port have been rather heavy of late, and with a fair demand in progress prices are steady. A large stock is reported held in primary markets for speculative purposes, but consumers are well supplied meantime. Prices may be repeated as 7½c. to 7¾c. for case Curaçao, as to quantity. Gourds are easier at 12½c.

ASAETIDA is in fairly good supply, and prices for the various grades are steady at 75c. to \$1.15, according to quality. Several large consignments have been denied entry by the officials, owing to alleged discrepancies between the branding and tests, the usual trouble being the impossibility

of obtaining from a case two samples giving identical results on analysis.

BUCHU.—Shorts are quiet, with prices barely steady at \$1 in anticipation of freer offerings in the near future.

CANADA BALSAM is lower, as the result of freer supplies from primary sources and competition, barrels being offered at \$4. Oregon is in better demand at 80c.

CASCARA continues somewhat dull on spot, the requirements of manufacturers being satisfied meantime, and prices are steady at 9c. to 9½c., as to grade and quantity. Advances from the coast continue firm in tone, and higher prices are expected to follow a resumption of active buying.

COPAIBA.—Owing to a falling-off in receipts and more active inquiry, prices for the better grades of C. & S. American have advanced 3c. to 48c., at which considerable business has been done. Other products are offered at 39c. as before, being probably adjustable to the higher import cost of the genuine article.

HYDRASTIS is in less active demand, and with a better supply in sight prices are easier at \$5. Several large lots are reported held in country markets for speculative purposes, but if the present inactivity continues these stocks may become too heavy to hold, with a consequent fall in prices.

IPECACUANHA continues very firm owing to scarcity in all markets, a late test of the market showing \$2.30 to be the best terms for Cartagena, with Rio obtainable at the same figure.

OPIMUM is 25c. higher at \$8, as the result of revised crop estimates. Morphine sulphate has been advanced 25c. in sympathy.

PEPPERMINT OIL (American) has declined 5c. to \$2.85, as the result of competition in an inactive market. While the statistical position justifies a firm attitude on the part of primary holders, buyers in secondary markets show disinclination to operate freely at present levels in the absence of real scarcity.

SENEGA is held at the higher level of 60c. by some of the principal dealers, owing to a shortage in the country, but in other quarters 58c. may be done.

Hamburg Port Charges.

The American Vice-Consul at Hamburg reports that legislation in the form of Bills is to come before the Hamburg Senate, the object of which is to increase the State income. It is asserted that the proposed increase would amount to more than a million and a half dollars, of which amount about one-third, or nearly one-half million dollars, is intended to be secured through increases in the port charges. Already vigorous protest has been made by the Hamburg shippers and shipowners against these charges.

Rosewood Oil.

The British Consul for French Guiana, in his annual report for 1910, states that the total exports of oil of rosewood amounted to 22,066 kilos., valued at 551,650f., against 12,497 kilos., valued at 312,400f., in 1909, and 7,470 kilos., valued at 186,750f., in 1908. Seven factories are now established (two more than in 1909) in Cayenne for the distillation of the oil, which is shipped to France in carboys. The average product of 1 ton of wood is 22 lb. of oil, the price in France being about 10s. per lb. In addition, the exports of rosewood in 1910 were 1,262 tons, valued at 94,628f., against 265 tons in 1909 and 27 tons in 1908. The entire export was to Grasse (Alpes Maritimes). The wood is sold at 100f. and 150f. per ton (locally).

Linseed Oil.

Since the end of September the price of linseed oil has dropped about 9f. per ton to about 33f. 10s. for spot delivery in London, which compares with 51f. 10s., the extreme highest point touched, in February this year. The position now, despite the weak surface appearances, is extremely puzzling, and future movements for the next few months, at any rate, or until anything like large quantities become available for the crushing industry out of the new Argentine crop, is a matter of guesswork. The position of crushers is very difficult, and they are most reluctant to anticipate their requirements, although the price of River Plate seed has given way to a greater extent than that of the by-product, where the depression of late has been to some extent resisted by the fact that the quantities available on the spot or for near delivery are comparatively restricted. It is not the expectation of a prospective probable increase of about 4,000,000 bushels in the yield of this year's American crop which has affected the situation lately, but entirely the expectation of a large Argentine crop, the exportable surplus of which was recently placed at about 1,000,000 tons. In the circumstances, there was naturally great eagerness on the part of European speculators and Argentine exporters to discount a return to more normal conditions. This process, however, has been so drastic in the space of a few weeks that the less favourable reports from the River Plate, to the effect that the condition of the crop has been seriously pre-

judiced by heavy rains, has resulted in temporary violent fluctuations in the price of seed, owing to heavy re-purchases against shipping contracts for January, inasmuch as the crop is now expected to be rather a late one. The price of linseed oil, however, has not fluctuated much the last few days for the reasons already mentioned. With reference to the American crop, the Government returns of late years have usually fallen very wide of the mark, so that the estimate of 21,500,000 bushels, against 14,000,000 bushels, is seriously questioned. The lowest independent estimates are 14,000,000 bushels, but it is quite possible, according to trustworthy authorities, that the yield may turn out at about 15,000,000 bushels, which is barely sufficient to cope with domestic requirements.

COMING EVENTS.

Monday, December 11.

Portsmouth Pharmacists' Association, County Club, Kent Road, Southsea, at 9.30 p.m. Mr. W. J. U. Woolcock on "Organisation."

Tuesday, December 12.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 p.m. Professor H. G. Greenish will show slides illustrating "The Cultivation of Caraway in Holland," and Mr. G. Claridge Druce will give a lantern-lecture on "A Visit to Japan."

Bradford Chemists' Association, Great Northern Victoria Hotel, at 8 p.m. Annual dinner.

Stockton-on-Tees Pharmacists' Association, Tate's Café, at 9 p.m. Ordinary meeting.

Wednesday, December 13.

Edinburgh Chemists' Assistants' and Apprentices' Association, 36 York Place, at 9.15 p.m. Mr. S. P. Crowden, Ph.C., on "The Constituents of the Official Volatile Oils," and Mr. H. Stout on "Some Syntheses of Benzene."

Manchester Pharmaceutical Association, General Lecture Theatre, Medical School, the University, at 7.30 p.m. Assistants' evening. A lecture will be given by Mr. B. G. Hough on "Food and its Digestion in the Body."

Newcastle-on-Tyne Pharmacists' Association, Grand Hotel, at 7.30 p.m. Annual dinner. Sir Edward Evans, President of the British Pharmaceutical Conference, will be the guest of the evening.

Nottingham Pharmaceutical Association, Victoria Hotel, at 8 p.m. Social meeting.

Western Chemists' Association, Restaurant Frascati, Oxford Street, London, W., at 9 p.m. "The British Pharmaceutical Codex," by Mr. E. White.

Thursday, December 14.

North Staffordshire Chemists' Association, Stoke, at 7 p.m. Mr. E. Corner on "Scientific Salesmanship," followed by a discussion on "The National Insurance Bill."

Association of Women Pharmacists, Passmore Edwards Institute, Tavistock Place, London, W.C., at 8 p.m. Miss A. Borrowman, Ph.C., will read a paper on "*Hevea brasiliensis*: its Application to Pharmacy."

Bath and West of England College of Pharmacy, Fisher's Restaurant, Bath. Supper and smoking-concert, to which all old students are invited. Tickets (2s. 6d. each) may be had from the Secretaries.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 p.m. Mr. W. B. M. Faraday on "Two Thousand Years of Chemistry."

Glasgow and West of Scotland Chemists' Association, 51 West Regent Street, Glasgow, at 8 p.m. Mr. J. Crombie, Ph.C., on the Codex.

Sheffield Pharmaceutical and Chemical Society, Grand Hotel. Annual dinner. Tickets may be obtained from Mr. H. Antcliffe, Hon. Secretary, Union Offices.

Stockport Pharmacists' Association, White Lion Hotel. Underbank, at 7 p.m. Annual dinner. Tickets (4s. each) may be had from Mr. A. E. Mills, Hon. Secretary, 135 Shaw Heath.

Friday, December 16.

Irish Chemists' Assistants' Association, 2 Aston's Place, Dublin, at 8 p.m. Lecture.

NOVEMBER FOREIGN TRADE.—The Board of Trade Returns for November are good, imports being 1,345,000f. and exports 4,089,000f. more; of the increased exports, 3,110,000f. was in manufactured goods, and included 38,571f. more for chemicals and the like.

Society of Chemical Industry.

A MEETING of the London section was held at Burlington House on December 4, Mr. E. Grant Hooper in the chair. The first paper was by Mr. W. C. Hancock, on

THE PHYSICAL PROPERTIES OF CLAYS, in the course of which it was pointed out that the ultimate analysis of a clay, although affording useful information on certain points, gives no indication of the working properties. The gap can be filled for some purposes by the "rational analysis," which separates the material in three mineral constituents, "clay substance," quartz, and felspar. The actual working characters, however, can only be judged from measurements of the physical properties. Mr. Hancock then described the tests which are made on the raw or unburnt and the burnt clay. These are specific gravity, plasticity, shrinkage on drying, tensile strength, and texture (size of grain). Plasticity was referred to as the most important test, from the practical point of view.

NON-TANNINS IN LEATHER-FORMATION.—Dr. J. Gordon Parker then read a paper by himself and Mr. J. R. Bloeky on "The Value of the Non-tannins in the Formation of Leather." Experiments were undertaken to determine what influence the non-tanning matters in a tanning material or extract have on the penetration of the tanning matters, or the yield in weight of leather and on the quality of the leather produced. By certain methods of manufacture of extracts, closed autoclaves are used for the extraction of the raw material, instead of the open extraction vats. The "pressure extracts" so produced contain a relatively higher amount of non-tanning matters than the extracts produced by open extraction, and it is sometimes claimed that this higher amount of "non-tans" penetrates the fibres of the leather and gives a higher yield of leather. The results of the present experiments show the opposite effect—viz., that the increase in the amount of "non-tans" retards the penetration of the tan, and that the quality of the leather is inferior when an excess of the "non-tans" is present. Mr. Cross, Dr. Rideal, and Mr. Draper took part in the discussion.

THE ESTIMATION OF CARBON MONOXIDE.—Mr. L. A. Levy then explained an apparatus he has devised for a rapid and simple quantitative test for carbon monoxide. He mentioned that a very dilute solution of gold chloride—originally light yellow—turns red owing to the formation of colloidal gold when carbon monoxide is bubbled through, and that the reaction can be arranged as a colorimetric method of empirically estimating carbon monoxide. In the method employed in the apparatus, however, the gas containing carbon monoxide is drawn through a tube containing iodine pentoxide and copper, maintained at 150°-170° C. in an air-bath. The carbon monoxide is completely oxidised to carbon dioxide, and the gas next passes through an absorbing coil of particular shape, which contains a measured amount of standard baryta solution coloured with phenolphthalein. The solution becomes colourless after the absorption of 20 c.c. of carbon dioxide. The volume of gas is equal to that of the water which has run out of the aspirator into a measuring cylinder.

THE COMPOSITION OF BASSIA FATS.—This was the subject dealt with by Mr. Russell G. Pelly. The fatty acids of the fats derived from the seed-kernels of *Bassia butyracea*, *B. longifolia*, and *B. latifolia* were investigated. *Bassia butyracea*.—The seed-kernels contain from 61.2 to 65.9 per cent. of fat of a firmer consistence than those of *B. longifolia* or *B. latifolia*, consisting approximately of olein 46 per cent., palmitin 54 per cent. *Bassia longifolia*.—The seed-kernels contain from 55.3 to 57.3 per cent. of fat, consisting approximately of 60 per cent. of olein and linolein together in the proportion of about 6 to 1, and stearin and palmitin together 40 per cent. Traces of volatile acids were also detected. *Bassia latifolia*.—The seed-kernels contain from 33 to 46 per cent. of fat; the lower figure is probably abnormal owing to immaturity of some of the seed in this sample. The fat is very similar to that of *B. longifolia*, and consists approximately of olein 66 per cent., stearin and palmitin 34 per cent.

The exports of opium from Persia during the year ending March 1910 amounted in value to 351,907*l.*, against 287,629*l.* in 1909 and 338,226*l.* in 1908.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Xrayser II. and Mr. Storrar.

SIR,—“The Observations and Reflections” of “Xrayser II.” upon “Another Fifer,” which appeared in your last week’s issue, contained the following passages:

“Any writer who puts forward his name in the public Press must be prepared for criticism.” “The author of an anonymous statement is, however, entitled to resent the subsequent publication by another party of his name, and Mr. Storrar has just cause to say, ‘Save me from my friends.’”

I have not the slightest objection to criticism, but in this instance the criticism does not apply to me, seeing that I neither know the letter nor the writer to whom “Xrayser” refers, and more especially seeing that, so far as I remember, I never in my life wrote an anonymous letter to the public Press. Possibly “Another Fifer” thought, as I did, that the criticism to which he referred was directed upon a signed letter of mine which appeared a few weeks ago in the “P.J.” In this we were, apparently, mistaken; but I know of no other letter to which it could refer. Had “Xrayser” signed his observations with his own name, instead of contributing them anonymously, I might have sent this explanation to him direct instead of troubling you with it.

Yours faithfully,

DAVID STORRAR.

Kirkcaldy.

SIR,—I had not intended troubling you again on this matter, but in fairness to Mr. Storrar I must do so, and at the same time clear myself of the charge of divulging the name of an anonymous correspondent. This certainly I did not do. My only reason for mentioning Mr. Storrar’s name was that a letter appeared over his full signature on November 4—that is, the week before Xrayser’s article—in a contemporary paper, which I, too hastily perhaps, assumed had also appeared in THE CHEMIST AND DRUGGIST; and took it for granted that it was this letter to which Xrayser referred. I have not seen any other recent letter from Fifeshire in the columns of the C. & D., and am not aware of any being published, so that I do not even know what particular letter Xrayser had in mind. In his remarks in your last week’s issue Xrayser has said nothing to remove the feeling that the tone adopted by him towards Fifeshire was quite unwarranted. The pseudonym under which he writes gives his readers no clue to his identity, and one cannot ascertain whether from his own position and experience he can judge fairly of the position as it affects Fifeshire, and until he proves that he is so entitled he might well deal in a less slighting fashion with those who feel the position at least as acutely, if not more acutely, than he does himself. Apart from this, however, I claim that he has not met the argument I advanced in my last letter, and I can hardly allow him to turn me off quite so cursorily as he has done. Xrayser says that I appear to dispute his remark that “the community is never consciously unjust to those who do its work.” This he gives as a full sentence. In the original article it appeared as a clause, and what I disputed was he arrived at, in his complete sentence, for the increase in rates and taxes, and this he has not met. If you take his clause as an independent, no one would seriously dispute it; but I could refer Xrayser to a Corporation at present buying branded disinfectants and certain proprietary articles below net cost price from a co-operative institution, thus cutting out local pharmacists. How does Xrayser square

that with his statement? He also remarks that his observations were "purely impersonal." If "they were not directed against Mr. Storrar or any other person," against what then were they directed?

Yours, etc.,

ANOTHER FIFER. (255/57.)

The National Insurance Bill.

SIR,—All the letters that have appeared in your columns with reference to the part chemists will take in the practical working of medical benefits when the Insurance Bill becomes law seem to take for granted that the said Bill is going to make an immense difference to chemists. For the life of me I cannot see this. Take, for instance, a town with a population of 6,000 with two chemists. I believe it is an admitted fact that the insurance proposals affect about one-third of the population. This reduces our 6,000 persons to 2,000. Suppose each chemist takes half—i.e., the dispensing, etc., for 1,000 persons—and for each receives 1s. 3d. a year—i.e., 62l. 10s.—he will be very lucky if half this amount, say about 30l., is retained as profit; he will have a very large amount of extra work to do for this sum. Now, it must be a very poor business that 30l. a year is going to make or mar. Then why is every chemist talking about the benefits he will receive under the new scheme as if his whole business was at stake?

Yours very truly,

MUCH ADO ABOUT NOTHING. (253/3.)

SIR,—The remarks in one or two letters by leading lights of the P. & D.S.P.A. in reply to Xrayser II. are delectable. One speaks of the rights and privileges of these "trained and educated" men, and another coolly suggests that all apprenticed pharmacy proprietors should be admitted "as in 1868" to the Register. But when they suggest that the only difference between the registered and "trained and educated" men is the right of the former to retail poisons, is this not somewhat pitiable? Why not play the game and qualify, instead of slinking into the craft by the back door, so to speak. I should have thought it humiliating to have to confess incompetency or inability if in business as a P. & D.S.P. on a prescription containing a poison being handed in. Anyone with an unbiassed judgment must agree with Xrayser II. where he says that even though the unqualified dispenser may be capable of tackling the majority of prescriptions, it is absolutely necessary to have an expert at his elbow in case of doubt. My experience is that the middle and better classes of the public like the idea of their chemist being qualified as required by the law (I cannot speak for the lowest order), and I do not believe that a chemist need go under even though the P. & D.S.P. comes along and offers as an excuse for omission to qualify an "ounce cut down" for a penny.

Eastbourne.

W. F. MOSLEY.

SIR,—In your last issue of *C. & D.*, lines 39, 40, and 41, on p. 43, arrested my attention. Why should not any assistant to a pharmacist for the previous three years receive recognition. I think all assistants who have served three years prior to the Act should be *qualified* to dispense on *behalf* of any pharmacist, institution, or to those medical men who contract out. I do not mean "they should be qualified to undertake dispensing on their own account." They certainly have as great a claim to recognition as a number of dispensers to medical men. Perhaps it is too late for anything to be done in this direction. It would be a boon to pharmacists if their assistants could be so qualified.

Yours, truly,

Seaham Harbour.

WM. FORSTER.

[The clause, as amended, continues the existing condition which enables dispensing to be done under the supervision of qualified persons.—EDITOR *C. & D.*]

What is a Poison?

SIR,—If on the 25th of this month Mr. S. F. Burford eats too much plum-pudding he will most likely consume it "at ordinary atmospheric temperatures" and it will be "absorbed by the body." It may produce "excessive

derangement or cessation of the functions of health." Is, then, plum-pudding a poison? Perish the suggestion! "A poison," I have read somewhere, "is a substance which has the power of destroying life without the aid of heat, mechanical force, or electricity." I think that is a pretty good definition, but I do not know who originated it. If your readers are interested in intellectual wrestlings, could any of them give a brief and concise definition of "life"?

Yours truly,

Hawick.

W. E. WILSON.

SIR,—There is no doubt the absolute definition of this word is "a substance that is capable of destroying life," but, thanks to medical science, if discreetly administered in suitable quantities it is capable of saving and prolonging life. Hence the different aspects of the word. Pure vitriol and phenol are undoubtedly none other than dangerous poisons, but when diluted to 1—200 are not so. This seems to me to be the discriminating point between substances designated "Poisonous—Not to be taken," and "Poison." Pure phenol or vitriol taken in any quantity is extremely corrosive and poisonous. That is the reason why chemicals like vitriol, spirit of salt, carbolic acid, nitric acid, oxalic acid, and ammonia should be labelled "Poisonous—Not to be taken," because, being generally used in their crude state, they can only act as poisonous substances strictly in a poisoning sense; whereas acid. sulph. dil. and carbolic acid 1—200 are not so. Hence, looking at the scheduled poisons, to my mind they are all, I submit, powerful poisons, and if taken haphazardly poisonous, but when administered in their proper proportionate medicinal amounts are, because they are a solution or dilution of a poison, poison but not poisonous, and require discriminate handling.

Yours truly,

Jesmond, Newcastle.

L. J. TEIFFEL, Ph.C.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

A Correction.

Mr. W. B. Mason, managing director and founder of Taylor's Drug Co., Ltd., writing in regard to our obituary notice of the late John Mason, says: "The business of Mason & Co., Ltd. (of South Shields and elsewhere), is still carried on in many places in the North of England. This business was not merged into Taylor's, as inaccurately stated in your issue. Mr. John Mason was a fellow-assistant with my brother, Mr. T. H. Mason, in a large drapery establishment in Sunderland over thirty years ago, and when, some years afterwards, he disposed of his share in a drapery business in Derby, I found an opening for him as salesman in our principal Bradford shop."

An Unaccepted Invitation.

Mr. Edwin T. Palmer (Aylesbury) writes calling attention to the fact that in the *C. & D.* of November 11 Mr. H. Miller, Chairman of "Ucal," invited Mr. R. A. Robinson, one of the five pharmacists who visited the United States at the invitation of the United Drug Co., to investigate "Ucal," also offering him every facility for so doing. "I have looked in vain," adds Mr. Palmer, "for any response from Mr. Robinson."

Is this a Record?

This order was shown to me by Mr. T. F. Spivey, chemist, Howden, Yorks. who, I might say, has been in business in this town for over fifty-seven years. The order was from an old customer, and read as follows:

"Sweets, $\frac{1}{4}$ lb.; lemon and acid drops, same as had fifty years since."

It is a splendid thing when you can keep customers to you like this; nothing like personal connection for making and keeping a business together.—A. H. Jones.

Laudanum for Children.

In your issue of November 25 Dr. McWalter puts a question respecting the dispensing of a prescription for an infant of twelve months. Personally, I should not dispense it; and I cannot agree with "Xrayser" that the prescription might safely have been made up. I have known fatal results follow from a mixture containing half the amount of laudanum in each dose. Competent men who specialise in the disorders of infants seldom prescribe laudanum, and then only in doses from $\frac{1}{6}$ to 1 minim for infants of three to twelve months.—*Pediatrics* (256/59).

Legal Queries.

Consult the Legal Advice Section of "The Chemists' and Druggists Diary," 1911, p. 435, before writing about your difficulty.

H. W. G. (252/45).—The title "Chilblain Liniment" in itself makes a compounded medicine liable to duty (see the article on medicine-stamp duty in the *C. & D. Diary*).

L. S. W. (252/33).—The words "Bile Beans" are not a registered trade-mark, but their use by persons other than the introducers of "Bile Beans" is subject to common-law provisions and the question of colourable imitation, as to which users must take full responsibility.

F. M. (245/45) bought three properties at auction in 1904. He made a gift of them to his daughter and took the conveyances in her name. He wishes to know whether any death-duties will be payable in respect of the properties upon his death. [The gift to the daughter was made more than three years ago, and as "F. M." did not reserve any benefit in the properties to himself, no death-duties will be payable upon "F. M.'s" death.]

Miscellaneous Inquiries.

We do not as a rule repeat information given in this section during the past twelve months. When references are given to past issues, these should be consulted. Back numbers for the past five years can generally be obtained from our office at the published prices. We do not undertake to analyse and report upon proprietary articles.

H. E. (245/39).—**JUNKET-POWDER.**—The two methods of preparing this are illustrated in the following recipes:

1. Fresh calves' rennet ... 100 parts

Clean carefully, cut up in a mincing-machine until a pulpy mass is produced, then mix well with

Sodium chloride ... 20 parts
Milk-sugar ... 60 parts

Spread this mass in a thin layer on glass plates and dry at a temperature not exceeding 40° C. (104° F). When sufficiently dry so as to be pulverisable add

Milk-sugar, a sufficiency to make 100 parts

and thoroughly mix.

This makes a concentrated powder—about 1 gr. curdles a pint of milk—which can be further diluted with milk-sugar if desired.

2. Rennin ... 1 part
Sodium chloride ... 5 parts
Milk-sugar ... 5 parts

About 10 grains is needed to coagulate a pint of milk.

Each batch of junket-powder requires testing before sending out to ensure that it is in an active condition, and it is obvious that the strength can be adjusted in any manner desired after conducting a few tests with the powder. As a variation on the first recipe given above the calf's stomach is scraped, and only the scrapings are employed, as in making pepsin.

H. L. (246/17).—**MILK-TREATMENT.**—Sterilising of milk consists in heating it at or over the boiling-point for a time to destroy all the bacteria in the milk. The disadvantage is that the enzymes which are beneficial in promoting digestion are destroyed, and it is believed that the calcium salts are changed during the process, so that the milk is liable to produce scurvy. Pasteurised milk, on the other hand, is milk which has been heated at 150° F. for twenty minutes or 160° F. for ten minutes and then quickly cooled to 50° F. This milk retains its "vital" properties, but the tubercle bacillus and the bacteria of typhoid, diphtheria, and some other special diseases are rendered harmless.

Dens (6/4).—**DENTAL MODELLING COMPOSITION.**—The following, from "Pharmaceutical Formulas," is on the lines you require:

Stearin ... 3viij.
Gum dammar ... 3xij.
French chalk ... 3xxij.
Carmine ... to colour.

Melt the stearin and shake into it the gum dammar, previously powdered, then add the chalk tinted with the carmine and ol. geranii 3ss.

A half-soft copal can be employed in place of the gum dammar, and the consistency may be varied by the addition of Venice turpentine.

J. L. & Co. (239/22).—**SOFTENING HARD SKINS.**—Animal skins which have become hard after curing with alum are softened by sponging the inner surface with a strong solution of ammonium chloride.

West-end (246/25).—The seventh International Congress of Medicine will be held in London from July 29 to August 6, 1913. The Committee of Organisation, of which Dr. Herringham is Hon. Secretary, meets at the Royal College of Physicians. Sir Thomas Barlow is President of the Committee.

Alfa (239/41).—(1) **GELATIN PILL-COATING.**—On a small scale the pills are mounted on needles and dipped into a gelatin solution made as follows:

Gelatin ... 3iv.
Boric acid ... 3ij.
Acacia mucilage ... 3j.
Distilled water ... 3XL.

Dissolve the gelatin in the water after soaking, add the mucilage and boric acid, and mix.

The needles are fixed in a disc, and after dipping the pills in the gelatin solution the disc is withdrawn slowly, to allow superfluous solution to drain, and is then turned upside down to dry. The process is described at greater length in the "Art of Dispensing." (2) **THERAPEUTICS OF CELERY.**—There has not been, so far as we are aware, any recent investigation into the properties of celery (*Apium graveolens*). Analysis shows that celery consists of water 93 per cent., starch material 3.5 per cent., nitrogenous matter 1.5 per cent., cellular fibre 1 per cent., mineral salts 1 per cent., and a trace of volatile oil. It is this oil which acts as a mild carminative and stimulant. Celery has the reputation of being good for rheumatism, and benefit may possibly result from the volatile oil which is allied to the apiol of parsley (*Apium petroselinum*), and possesses diuretic and stimulant properties. The mineral salts contain a trace of iron.

H. G. C. (240/66).—(1) **TALC TOILET-POWDERS.**—The following selection of formulæ will give you sufficient choice:

1.	Talcum ... 1 lb.	4.	Talcum ... 12 oz.
	Rose-geranium oil 10m		Rice-starch ... 2 oz.
	Wintergreen oil ... 1m		Orris-root ... 2 oz.
	Jasmin essence ... 3 dr.		Orris oil ... 16m
2.			Mix.
	Talcum ... ½ lb.	5.	Zinc oxide,
	Rice-starch ... ½ lb.		Wheat-starch,
	Neroli oil ... 30m		Boric acid,
	Ylang-ylang oil ... 30m		Talcum, of each ... 4 oz.
3.			Rose-geranium oil 10m
	Talcum ... 14 oz.		Mix.
	Boric acid ... 2 oz.		
	Rose-geranium oil 2 dr.		

Zinc oleate or zinc oleo-palmitate may replace part of the zinc oxide in the last recipe. Another variety containing salicylic acid is employed for the feet. (2) Boric acid or a trace of thymol may be added to liquor hamamelidis to increase its antiseptic properties.

H. (246/3).—**AMMONIA LINIMENT.**—Perhaps it is Raubenheimer's suggestion (printed in the *C. & D.* of November 14, 1903, p. 760) which is in your mind. This is simply a mixture of 3 parts of sesame oil and 1 part solution of ammonia, both by weight. The liniment is said to be permanent, and does not thicken by keeping. See also *C. & D.*, July 29, index folio 213.

Scriptum (253/71).—Phenazone and sodium salicylate are chemically incompatible, but not therapeutically so. The fact that antipyrin salicylate is used medicinally is sufficient proof of that fact. The salicylate combines the analgesic effects of antipyrin and the resolvent action of salicylic acid.

Nostrums (18/38).—(1) **BLACK-WATER FEVER.**—There is no panacea for black-water fever. The routine treatment is to give sodium bicarbonate 10 grains with liq. hydrarg. perchlor. 3ss. every two hours for the first twenty-four hours, and then every three hours until the urine clears. At the same time some practitioners administer sodium methylarsenate, but as a rule it is the symptoms that need attending to. The vomiting is treated by the subcutaneous injection of ½ grain of morphine or by placing mustard poultices on the stomach, heart-failure needs the administration of hypodermic injection of strychnine and digitalis, lumbar pain is best counteracted by hot fomentations, and diuresis promoted by potassium citrate in doses of 3ss. to 3j. every six hours. For twenty-four hours the patient receives nothing *per ora* but barley-water, as much liquid being administered as the patient demands. Nutrient enemata may

be administered. (2) THYMOL CARBONATE or thymotal is given in cases of worms, the dose for children being 8 to 15 grains daily for four days, when a dose of laxative medicine must be administered. We are unable to refer you to any clinical literature on the subject.

L. L. S. (238/26).—WASSERMANN'S REACTION.—This is employed as a test for syphilis, and depends upon the fact that when the serum of a syphilitic patient is mixed with an extract made from the liver of a syphilitic foetus the mixture acquires a property not possessed by either constituent alone in the same degree. It is able to take up "complement." That this is the case is shown by adding to the mixture a suitable quantity of "complement"—*e.g.*, fresh guinea-pig serum—and after an interval adding sensitised red-blood corpuscles. The red cells remain intact suspended in the fluid, whereas if the "complement" had not previously been taken up they would have been "laked" (precipitated). Before giving the details of the case it is perhaps advisable to explain the basis of the test, which we extract from an article which was published in "The Lancet." Bordet in 1898 showed that when the red corpuscles of one animal are injected into an animal of another species a substance is produced in the serum of the latter which possesses the power of dissolving the red corpuscles of the former. This substance is called a hæmolyisin, and it is found to consist of two parts, one of which—the "immune body"—is not destroyed by heating to 60° C., and the other—the "complement"—which is destroyed at that temperature. Both the immune body and the "complement" must be present to effect a solution of the corpuscles, and in the process they both become "bound" to the corpuscles. Further, it has long been known that the injection of bacteria or their products, or even other substances, into animals produces "antibodies"—that is, substances which tend to neutralise the material injected. These substances which give rise to "antibodies" may be called "antigens." Bordet and Gengou in 1901 employed the hæmolytic process to demonstrate in a serum the presence of "antibodies" specific to particular "antigens." In cases where hæmolytic should occur when the serum of a normal animal is employed, hæmolytic will not occur if an "antibody" is present to "fix" the "complement." For the Wassermann test the following are needed:

1. Hæmolytic serum is prepared by injecting the defibrinated blood of a sheep into a rabbit at intervals, and after ten days killing the rabbit and placing portions of its serum in small sealed tubes, which are heated to 60° C. for an hour, thus depriving the serum of its "complement."
2. A dilute solution is made of some defibrinated blood from a sheep.
3. Some diluted serum from a guinea-pig is taken to provide the "complement."
4. An alcoholic extract is prepared from the liver of a syphilitic foetus and diluted with saline solution.
5. The serum to be tested is drawn from the patient's finger into a capillary pipette and its "complement" is removed by heating to 60° C.

To carry out the test equal parts (generally 0.5 c.c.) of each of these are employed. First "4," "5," and "3" are mixed in a test-tube and put into the incubator for one hour. Then "1" and "2" are added, and the tube returned to the incubator for two hours. By the end of this time the reaction will be apparent, for if antibodies are present the corpuscles will settle at the bottom of the tube (a *minus* reaction), but if they are absent complete hæmolytic will have occurred (a *plus* reaction). Control-tests are carried on at the same time. It should be added that the present attitude is that a *plus* reaction is of diagnostic value in cases of suspected syphilis, but a *minus* reaction is no proof of the absence of the disease.

H. W. H. (251/34).—POMADE HONGROISE.—See *C. & D.*, November 11, index folio 730.

W. F. S. (249/61).—OXYGEN-BATHS.—The method of preparing effervescing-oxygen baths depends upon the liberation of oxygen from sodium perborate by means of manganese borate added as a catalyst. Sarason, who suggested the method in 1904, took out French and German patents subsequently, in which he mentions that boric acid is added after the manganese borate. More recently Sarason has devised a method in which colloidal manganese dioxide is employed in place of the borate. The colloid is made by oxidising manganous salts or by reducing manganates or permanganates in the presence of a protective colloid, such as gelatin, casein, or gum. A patent for the last-mentioned method has been granted in this country (10,066/1910). We note also that a German patent (230,175/1909) adds an alkali iodide in addition to the usual catalyst to accelerate the evolution of oxygen, as shown in the following example: Dissolve 300 grams of sodium perborate in 250 litres of water, and add 12 grams of potassium iodide and 0.62 gram of

manganese sulphate. It is claimed that 96.2 per cent. of the perborate is decomposed in twenty minutes, and the whole in twenty-five minutes.

Acetamide (249/73).—(1) THYMOL TOOTH-PASTE:

Precipitated chalk ...	1 lb.
Magnesium carbonate ...	1 oz.
Powdered orris-root ...	3 oz.
Thymol ...	60 gr.

Mix well, and mass with a sufficiency of the following mixture:

Gelatin ...	70 gr.
Glycerin ...	3 oz.
Water ...	1 oz.

Dissolve by heat, after soaking the gelatin.

(2) AQUA MENTHE PIP. CONC. (1 in 20):

Ol. menth. pip. ...	3ij.
Spt. rectificat. ...	3iiss.
Aq. ad ...	3viij.

Mix the oil in the spirit and add to the water containing a little kieselguhr. Shake occasionally, and after three days filter bright.

Rusticus (247/3).—(1) GLYCIN-DEVELOPER:

Glycin ...	1 oz.
Sodium sulphite ...	2½ oz.
Potassium carbonate ...	5 oz.
Water to make ...	30 oz.

Dissolve. For normal exposures dilute with an equal bulk of water.

(2) SHOP-HEATING.—One of Clarke's syphon-stoves will be the most convenient for heating your pharmacy, and even with gas at 3s. 4d. per thousand possesses many advantages over paraffin-stoves.

Soupeon (31/34).—The collodion when used for coating would give a white enamelled appearance by employing white lead, zinc white, or bismuth oxychloride, but there are one or two problems involved which need experimental work.

J. W. T. (253/53).—(1) CHILDREN'S COUGH-MIXTURE.—There were forty-five formulæ for this published in the 1904 *Diary*, and the greater part of the products would be "red and syrupy." From this you will see that it is impossible to answer your inquiry with any certainty. (2) We have no formula for chlorodyne containing the proportion of chloroform you require, but a study of the numerous recipes given in "Pharmaceutical Formulas" will help you in devising one.

E. N. B. (250/10).—ALUMINIUM-POLISH.—Various substances have been recommended for this purpose, such as rouge and turpentine and rum and olive oil. The following has been found to answer fairly well:

Stearic acid ...	1 part
Fullers' earth ...	1 part
Tripoli ...	6 parts

Mix.

There is generally a difficulty in restoring the natural white colour of the metal, but it is managed, we believe, by alternate baths of caustic alkalis and strong acids, finishing with hot water and drying with sawdust.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," December 14, 1861.

Reputed Specific for Small-Pox.

At the last meeting of the Epidemiological Society, a communication was read from Mr. Herbert Miles, Assistant-Surgeon to the Royal Artillery, respecting a plant which was stated to be a specific for small-pox. The remedy is given in the form of a strong infusion of the rhizome, and Mr. Miles had, after very considerable difficulty, succeeded in obtaining a small supply of the plant, which he had forwarded to the Society. Mr. Miles is quartered in Canada, where an epidemic of small-pox having broken out among the Indians, the disease had proved virulent in the extreme among the unprotected, because unvaccinated, natives. However, the alarm had greatly diminished on an old squaw going among them, and treating the cases with the infusion. This treatment, it is said, was so successful as to cure every case. The Secretary of the Society, Dr. McWilliam, C.B., had sent specimens of the plant to Dr. Hooker, of Kew, who pronounced it to be the *Sarracenia purpurea*, one of the pitcher plants of North America. Mr. Marson, of the Small-Pox Hospital, has kindly undertaken to give the so-called remedy a trial.

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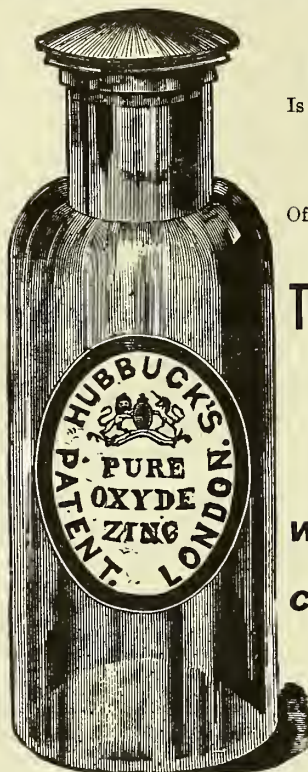
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**White Lead, White Zinc,
Paints, Oils,
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The Manufacturers supply their Pure
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not less than 2 cwt.

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FIRST QUALITY.
3 & 4 6 & 8 12 16 ounce. } Round edges, plain or
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Good Quality.

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Six gross and upwards, assorted or otherwise, sent carriage paid to any
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See pages 5 to 9.

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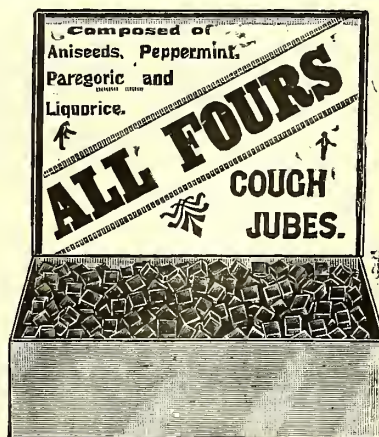
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Box,
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3

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Orris, English Ground, 1 cwt. @ 65/- cwt.; 7 lbs. @ 8d. lb.
Oss. Sepia Pulv., 1 cwt. @ 6d. lb.; 7 lb. @ 7½d. lb.
Otto Rosæ, finest 1 oz. @ 40/- oz.; No. 2, 1 oz. @ 28/- oz.
Oxymel Scillæ, B.P., 5 cwt. @ 31/- cwt.; 1 cwt. @ 34/- cwt.; *7 lbs. @ 6d. lb.

Papain, 1-80, 1 lb. @ 18/6 lb.; 1 oz. @ 1/7 oz.
Paraffinum Durum B.P., 2 cwt. @ 2½d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3½d. lb.; 7 lbs. @ 4½d. lb.; **Molle** Flav., B.P., 3½ cwt. @ 16/6 cwt.; 1 cwt. @ 25/- cwt.; 28 lbs. @ 3½d. lb.; 7 lbs. @ 4d. lb.; **Alb.** B.P., 3½ cwt. @ 55/- cwt.; 28 lbs. @ 7d. lb.
Paraldehyde, B.P., 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.

Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.
Phenacetin, P.B., pulv., 1 cwt. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. @ 3/- lb.
Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6.
Phenolphthalein, 7 lbs. @ 6/2 lb.; 1 lb. @ 6/8 lb.
Pix. Burgund, Druggists', 1½ cwt. @ 25/6 cwt.; 7 lbs. @ 4½d. lb.

Plumbi Acetas, Druggists', 1 cwt. @ 34/6 cwt.; 7 lbs. @ 5d. lb.; Powder, 1½d. lb. extra.
Podophylli Resina, P.B., 1 lb. @ 10/- lb.
Potassa Caustica Sticks, P.B., 28 lbs. @ 10d. lb. 6-1 lb. Bots. @ 11d. lb.

Potas. Acetas. Gran. P.B., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.

Potas. Bicarb. pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4d. lb.

Pot. Brom. P.B., 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/4½ lb.; 7 lbs. @ 1/6 lb.

Potas. Chlor. Pulv., 1 cwt. @ 4d. lb.; 7 lbs. @ 5d. lb.

Potass. Cit., B.P., 7 lbs. @ 1/7½ lb.

Potass. Cyanidum, 98%, 1 cwt. @ 11½d. lb.; 7 lbs. @ 1/2 lb.

Potass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.

Potass. Metabisulph., 1 cwt. @ 42/6 cwt.; 7 lbs. @ 6d. lb.

Potass. Permang., Cryst., 1 cwt. @ 39/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.

Potass. Prussias Flav., 7 lbs. @ 7½d. lb.

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" Jalap Comp. P.B., 1 lb. @ 1/6 lb.

" Rhei Comp. P.B., 1 lb. @ 1/2 lb.

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Quinine Hydrochlor. B.P., 100 ozs. @ 10½d. oz.; 25 ozs. @ 11½d. oz.; 10 ozs. @ 1/1 oz.

Quinine Sulph. B.P., 100 ozs. @ 7½d. oz.; 25 ozs. @ 8d. oz.; 10 oz. @ 8½d. oz.

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Rad. Ipecac. Rio., 7 lbs. @ 9/5; 1 lb. @ 10/-

Rad. Jalap. English Ground, 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.

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Sacchar Ust., 1 cwt. @ 25/6 cwt.; 10 lbs. @ 4d. lb.

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Sal. Acetos. 1 cwt. @ 5d. lb.; 56 lbs. @ 5½d. lb.; 7 lbs. @ 6½d. lb.

Salicinum, B.P., 1 lb. @ 16/6 lb.

Salol, B.P., 7 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.

Sang. Draconis pulv., English ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.

Santoninum, P.B., 7 lbs. @ 60/- lb.; 1 lb. @ 62/- lb.

Sapo Cast. Alb., 10 cwt. @ 25/- cwt.; 2 cwt. @ 26/- cwt.; 7 lbs. @ 3½d.; pulv., 1 cwt. @ 60/6 cwt.; 56 lbs. @ 64/- cwt.; 7 lbs. @ 7½d. lb.

Animal pulv., 1 cwt. @ 67/- cwt.; 56 lbs. @ 70/- cwt.; 7 lbs. @ 9d. lb.

Scammony Resin Pulv. B.P., 7 lbs. @ 3/10 lb.; 1 lb. @ 4/3 lb.

Shellac (Orange), 1½ cwt. @ 74/- cwt.; 7 lbs. @ 9d. lb.

Soda Caustica, 28 lb. tins @ 8½d. lb.; 6 1-lb. Bots. @ 10d. lb.

Soda Cit., B.P., 3 lbs. @ 1/11 lb.

Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur., 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.

Soda Sulphate Recryst., 1 cwt. @ 16/6 cwt.; 7 lbs. @ 4d. lb.

Soda Sulphocarbolas, B.P., 7 lbs. @ 10½d. lb.

Sodii Bromid. P.B.; 1 cwt. @ 1/7½ lb.; 7 lbs. @ 1/9½ lb.

Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.

***Spt.** Aether Nit. P.B., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.

***Spt.** Ammon Aromat. P.B., 5 lbs. @ 2/8½ lb.

***Spt.** Chloroformi, P.B., 5 lbs. @ 3/7 lb.

Strontia Bromid., 1 cwt. @ 1/4 lb.; 7 lbs. @ 1/7 lb.; 1 lb. @ 1/10 lb.

Strychnina cryst., B.P., 25 ozs. @ 2/2 oz.; 1 oz. @ 2/6 oz.; Hydrochlor. and Sulphate, 2d. oz. less.

Sugar of Milk, P.B., 1 cwt. @ 100/- cwt.; 7 lbs. @ 1/1 lb.

Sulphonal, P.B., 1 lb. @ 10/4 lb.

***Syr.** Aurant. P.B., 7 lbs. @ 9½d. lb.

" Easton, B.P., 7 lbs. @ 1/0½ lb.

" Ferri Iodid. P.B., 7 lbs. @ 1/1½ lb.

" Ferri Phosphat. Co., 7 lbs. @ 5½d. lb.

" Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.

" Pruni Virg. B.P., 8 lbs. @ 7½d. lb.

" Rhamni, 7 lbs. @ 10½d. lb.

" Rhei P.B., 7 lbs. @ 8d. lb.

" Scillæ P.B., 7 lbs. @ 5d. lb.

" Sennæ P.B., 7 lbs. @ 8½d. lb.

" Tolut. P.B., 7 lbs. @ 7½d. lb.

Thymol, 7 lbs. @ 4/7 lb.; 1 lb. @ 5/3 lb.

Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; bond, 8½d.

***Tinct.** Belladon., B.P., 5 lbs. @ 2/11 lb. bond, 6½d.

***Tinct.** Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d.

***Tinct.** Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6½d.

***Tinct.** Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.

***Tinct.** Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.

***Tinct.** Card. Comp., P.B., 5 lbs. @ 2/6 lb. bond, 6½d. lb.

***Tinct.** Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb.

***Tinct.** Chlorof. c. Morph., B.P., 1835, 5 lbs. @ 1/1 lb.; bond, 1/5½ lb.

***Tinct.** Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb. bond, 1/2 lb.

***Tinct.** Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.

***Tinct.** Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.

***Tinct.** Gelsem. B.P., 5 lbs. @ 2/10 lb.; bond, 6½d. lb.

***Tinct.** Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 6½d. lb.

***Tinct.** Hyoscyami, B.P., 5 lbs. @ 2/5 lb.; bond, 7½d. lb.

***Tinct.** Iodl. B.P., 5 lbs. @ 3/11 lb.; bond, 1/1½ lb.; decolor. 5 lbs. @ 4/3 lb.; bond, 1/0½ lb.

***Tinct.** Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7½d. lb.

***Tinct.** Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9½d. lb.

***Tinct.** Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb.

***Tinct.** Opil. B.P., 5 lbs. @ 3/11 lb.; bond, 2/7 lb.

***Tinct.** Opil. Amon., B.P., 5 lbs. @ 3/9 lb.; bond, 2/7 lb.

***Tinct.** Opil. Aquos., 5 lbs. @ 2/7 lb.

***Tinct.** Quinina Amm., B.P., 5 lbs. @ 2/6 lb.; bond, 11d. lb.

***Tinct.** Rhei Co., B.P., 5 lbs. @ 2/2 lb.; bond, 9d. lb.

***Tinct.** Scillæ, B.P., 5 lbs. @ 2/6 lb.; bond, 7½d. lb.

***Tinct.** Senegæ, P.B., 5 lbs. @ 3/1 lb.; bond, 1/3½ lb.

***Tinct.** Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d. lb.

***Tinct.** Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb.

***Tinct.** Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb.; bond, 8½d. lb.

***Tinct.** Zingib., P.B., 5 lbs. @ 4/- lb.; bond, 6½d. lb.

***Tinct.** Zingib. Fortior. 5 lbs. @ 4/3 lb.; bond, 10½d. lb.

Treacle (Black), 5½ cwt. @ 7/6 cwt.; 24 lbs. @ 2d. lb.

Turpentine (Best American), 1 gal. tins @ 3/10 each; Venice, Genuine, 40 lbs. @ 1/4½ lb.; 9 lbs. @ 1/7 lb.

Ung. Acid. Boric. P.B., 28 lbs. @ 6d. lb.; Flav., 28 lbs. @ 4½d. lb.

" Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.

" Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 3/- lb.

" Hydrargyri, B.P., 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.

" Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.

" Hyd. Nit. Dil. 7 lbs. @ 10d. lb.

" Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav., 28 lbs. @ 5d. lb.; 7 lbs. @ 6½d. lb.

" Resinæ, P.B., 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.

" Sulphuris, B.P., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.

" Zinci Oxid. Benz. B.P., 28 lbs. @ 7½d. lb.

Wax, Japan, 2 cwt. @ 48/- cwt.; 7 lbs. @ 7d. lb.

Zinci Oleat Powder B.P.C., 7 lbs. @ 2/- lb.

Zinci Oxid., Whitest and Lightest, B.P., 1 cwt. @ 38/- cwt.; 28 lb. @ 5d. lb.; 7 lbs. @ 6d. lb.

Zinci Sulph., pure, 1 cwt. @ 15/- cwt.; 28 lbs. @ 2½d. lb.

Sulphocarbolas, B.P., 7 lbs. @ 10½d. lb.; 1 lb. @ 1/1 lb.

*Minimum quantity at these prices: Home Trade, 8 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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Graduated Measures, Druggists' Sundries.*Illustrated Catalogues free.***OPAL GLASS****BOTTLES AND JARS.**MACHINE AND HAND BLOWN AND PRESSED.
WHITE AND BLUE.**O. A. PFEIFER,** 69 Farringdon Road,
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DISPENSING BOTTLES, &c.

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HOT-WATER BOTTLES

ONE QUALITY ONLY—THE BEST

REDUCTION IN PRICES

GUARANTEED FOR 2 YEARS.

"THE EMPIRE BRAND."

Both heavy and light Bottles are made from **best quality** rubber.



	Sizes	6 x 8	6 x 10	6 x 12	8 x 10	8 x 12	8 x 14	10 x 12	10 x 14	12 x 14
Top or side handle										
Heavy make ... each		3 0	3 4	3 9	4 0	4 4	4 9	5 0	5 4	6 6
Light " " " " each		2 9	3 0	3 5	3 6	3 10	4 6	4 8	5 0	6 1
Covers, scarlet or grey plush, each		0 8	0 8	0 10	0 10	0 11	0 11	0 11	1 0	1 2
" " " felt " "		0 5	0 5	0 6	0 6	0 7	0 7	0 8	0 10	1 0

N.B.—The metal collar in both heavy and light Bottles is **vulcanized into the rubber neck**, thus making it practically one solid piece and doing away with all possibility of leakage.

For orders of **two dozen** bottles assorted we will put tablet with customer's name on free of charge.

Each Bottle in a strong paper bag with directions for using.

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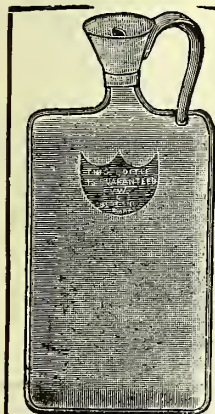
FIG. 957.—Side Handle.

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TRUSSES, etc.**

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BAILEY'S HOT WATER BOTTLES.

VERY BEST RUBBER at lowest Prices.



Fig. 1.

Fig. 1
or
Fig. 2

Sizes.	s.	d.
10 x 6	4	1
12 x 6	4	7
10 x 8	5	2
12 x 8	6	0
14 x 8	6	3
12 x 10	6	8
14 x 10	7	6
16 x 10	8	2



Fig. 2.

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Astounding Prices.

BOTTLES DISPENSING 8 oz. 3 & 4 oz. 2 oz.
7/- 6/- 5/9

YORKSHIRE MAKE. GREEN PANELLED
1/- gross extra

PLAIN OR GRADUATED. OTHER SIZES AT
PROPORTIONATELY LOW PRICES.

Crates 1/- each, containing 6 gross.
Carriage paid within 100 miles of Leeds.

CORKS.

Four sizes (1 dr. to 8 oz.)
in 6 gross bags of one size
6d. per gross.

TERMS.

Net Cash 7 days. Trade references required
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24 BUTT'S CT., LEEDS *

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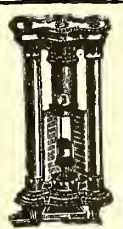
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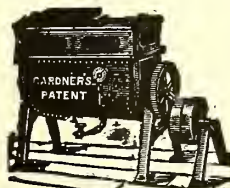
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BECAUSE

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It is and will be prescribed by doctors; and largely used by the housewife—for its culinary uses are many.

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*The margin of profit from Turtle Cup
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For the Manufacture of Tablets,
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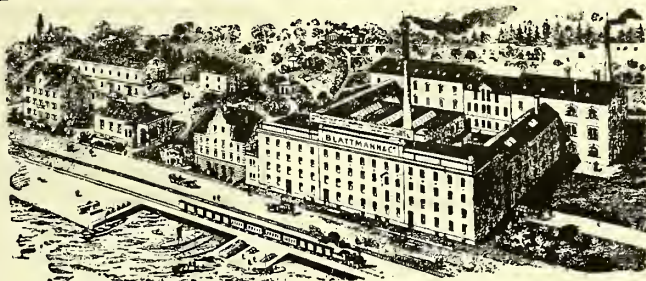
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12 x 8 ...	4/-	14 x 10 ...	5/5

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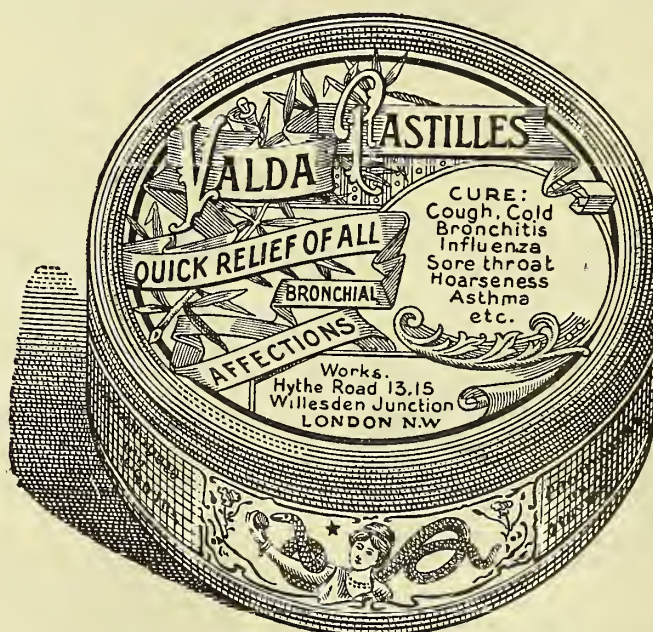
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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 9, 1911

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus London."

It pays to pay for advertising
in this Supplement.

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Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

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1.—LONDON, S.E.—Middle-class Business, chiefly ready money; returns between £950 and £1,000 per annum; net profit £300; attractive shop, well fitted and stocked; price £775.

2.—LONDON, W. (few miles out).—Light Retail, Dispensing, and Rescribing Business; returns £450; net profit 33½ per cent.; comfortable residence, garden; rent £45 per annum; price £260, or for entertained.

3.—WIMBLEDON (near).—Good-class Business, Retail, Prescribing, and Photographic; returns last year £1,037; gross profit 45 per cent.; attractive shop, double-fronted; well-assorted stock; good residence; price £650.

4.—LONDON, W.—General Retail, including Optical and Photographic; gross receipts average about £900 per annum; net profit £250; full investigation invited; price £550, about the value of stock and fixtures.

5.—DERBYSHIRE.—Mixed Business, very old established; returns increasing yearly, last year being £720; profit (net) £180; rent £20; price £225, which is less than the value of stock and fixtures.

6.—NORFOLK.—Unopposed Mixed Country trade; established any years; returns average £928 per annum; net profit £250; rent £26 17s. yearly; held on lease; price £500, or near offer.

7.—SUSSEX.—Unopposed Business, very old established; returns average £900 per annum, which produce a net income of £320; large shop, fitted in mahogany; rent moderate; terms, goodwill 100, stock and fixtures at a fair valuation.

8.—NORTHAMPTONSHIRE.—Modern Pharmacy; position good; returns average £2,100 per annum; gross profit over £800; books open to inspection; terms, goodwill and fixtures £300; stock at a fair valuation; about £1,000 required to purchase.

9.—DORSET.—Well-appointed Pharmacy, fitted by Maw; returns £770; profit above the average of Retail trade; large residence, bath-room, side entrance; rent £45 per annum; price £600.

10.—EASTERN COUNTY (market town).—Very old-established Business; returns average £2,273 per annum; commodious shop; corner position; terms, goodwill £300, stock and fixtures at valuation.

11.—WESTERN COUNTY.—Retail and Dispensing Business; established 1832; returns under manager about £1,000 per annum; average net profit from £250 to £300; large shop, fitted in mahogany and plate-glass; rent moderate; held on lease; price £875.

12.—NORTH OF ENGLAND.—High-class Retail and Dispensing Business; established 1825; returns average £800; gross profit £350; attractive shop, fully stocked; good residence; held on lease; price £630.

13.—HOME COUNTY.—Well-established Business; returns £728; net profit about £220; the shop is capitally situate in the centre of town; good house, garden; price £400.

14.—SOUTH WALES.—Good-class Business, Retail and Dispensing; returns average £4,060 per annum; present rate less; modern-fitted shop, situate in main thoroughfare; long lease; terms, value of stock and fixtures and sum for goodwill to be arranged equitably.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

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- 2.—LIVERPOOL. — Splendid chance; returns £485; net profit £165; price £150; scope for increase.
- 3.—LEEDS.—Good-class Retail and Dispensing; returns £965, at a net profit of £300; price £900.
- 4.—HUDDERSFIELD (near).—Good-class Suburban Retail; returns £950; net profit £280; price £800.
- 5.—GLAMORGAN.—Light Retail, in unopposed Colliery district; returns over £800; net profit £235; price £450.
- 6.—MIDDLESEX.—Light Country Retail; returns £470; net profit £155; price £260, or near offer; fittings practically new.
- 7.—NORTHANTS.—Light Retail, returning £440; situated in North Northants; price £250.
- 8.—MIDLANDS.—Retail and Wholesale Business in good mining district in the North Midlands; returns £3,000; price £1,200; part may remain.
- 9.—YORKS.—General Country Business; returns £800, at splendid profits; good house and double-fronted shop; price £450; advancing age sole cause of disposal.
- 10.—DURHAM.—Returns £854; net profit £220; price £550.
- 11.—SOUTH CHESHIRE.—Light Country Retail; returns £1,400; price £750; old established; illness cause of sale.
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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcement is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertiser's correspondents in this country.

MESSRS. BERDOE & FISH,

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- 4.—SUSSEX.—Unopposed good-class Retail Business; charming locality; returns about £650; net profit about £250; plenty of scope in energetic hands; price £550; good introduction.
- 5.—S. DEVON.—High-class Business, at full prices; returns average £600 under manager; net profit £250; beautifully fitted Pharmacy; same hands many years; price £600.
- 6.—LONDON, S.E.—Good-class Suburban Retail and Dispensing Business, no Side Lines; returns over £950; net profit £245; books properly kept; handsome Pharmacy, well stocked; price £750, or £50 valuation; strongly recommended.
- 7.—LONDON, S.W.—Well-established good-class Retail and Dispensing Business; returns over £1,000; net profit £300 clear; good position; fully stocked; price £675; little more than valuation.
- 8.—MIDLANDS.—Good-class Country Retail Business, under management; returns £1,400; gross profits £560; scope for increase; handsome shop in best position; stock and fixtures worth £1,000; price £1,200, or offer; stock reduced to suit purchaser.
- 9.—ISLE OF WIGHT.—Good-class Retail and Dispensing Business; returns £950; net profit £300; good position; large house and garden; own property; owner retiring; price £800.
- 10.—ESSEX COAST.—Good-class Retail Business, in the best position, and scope for increase; returns £728; net profit £220; weak opposition; low rent; large shop; stock alone worth £300; price £400.
- 11.—YORKS (East Riding).—Unopposed Mixed Country Retail with Wines and Spirits; returns £650; scope for doing £20 a week in energetic hands; well fitted and fully stocked; price £325, less than valuation.
- 12.—KENT.—Old-established Light Retail; has done £1,000; returns under manager £650; net profit £220; plenty of scope; good premises; low rent; price £500, or offer.
- 13.—LONDON, N.W.—Light Family Retail and Dispensing Business; returns £950; net profit about £240 after paying assistant; good house; own property; stock and fixtures worth over £500; price £625.
- 14.—WIMBLEDON.—Good-class Retail and Dispensing Business, practically unopposed; returns over £800; net profit £220; well-fitted shop and good stock; price £500; personally inspected.

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LETTERS in reply to Advertisements may be addressed to this Office, and will be forwarded to the Advertiser for an additional charge of 6d.

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LIVERPOOL.—(1) Returns £485; net profit £165; giving it away for £150. (2) Returns £1,000; splendid position; price £750. (3) Neglected Business; returns £250; price £120; good-class locality. Further particulars on application to Brett & Co., Chemists' Valuers, 73 Laurel Road, Leicester.

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Full particulars from the Medical Superintendent, Ladywell Sanatorium, Eccles New Road, Pendleton.

AGENCIES.

MONSIEUR F. O. Ritz, Chemist, of the firm "Laboratoire de Biologie Brunet," at present in London, is prepared to negotiate for Sole Agencies in France; staff, offices, and laboratories in Paris; exceptional facilities for introducing new products to the medical and pharmaceutical professions in France. 36/19, Office of this Paper.

SITUATIONS OPEN

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

NATURE OF ADVT.	REPLIES
UNQUAL. ASSISTT	41
JUNIOR (WHOLESALE)	23
QUAL. MANAGER	22
QUAL. MANAGING ASSISTT	19
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This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BLACKPOOL.—Richardson & Co. will shortly require the services of a qualified Junior Assistant (outdoors), chiefly for Dispensing. State fully particulars as to age, height, references, salary required, and enclose photo (to be returned).

BOURNEMOUTH (near).—Junior for good-class Dispensing and Retail; indoors; half-day weekly. Cartledge, Parkstone, Dorset.

BRIDLINGTON.—Wanted, Assistant, about 30; good all-round experience; permanency to suitable man. Give full particulars, salary required (outdoors), and enclose photo in first letter, to Harrison, Pharmacist, 19 Bridge Street, Bridlington.

BRISTOL.—Wanted immediately, Junior Assistant, of good address, accustomed to brisk General business; outdoors; no Sunday duty; one seeking a permanency preferred. Address, stating age, height, experience, salary required, references, and if possible enclose photo (to be returned) Plumley & Son, Chemists, Bristol Bridge, Bristol.

CROYDON MENTAL HOSPITAL, Upper Warlingham, Surrey.—Wanted, a Dispenser; candidates must be between the age of 21 and 35 years, and must possess a certificate in Dispensing; wages £35 per annum, with board, lodging, washing, and uniform; the appointment will be subject to the provisions of the Asylum Officers' Superannuation Act, 1909. Apply to the Medical Superintendent, stating age, experience, and enclosing copies of two recent testimonials and photograph.

GLAMORGAN.—Qualified man for small Light Retail business; easy hours; no Sunday duty; apprentice kept. Apply, giving full particulars of salary (outdoors), etc., in first letter, "Tsira" (43/34), Office of this Paper.

HALIFAX (outdoors).—Wanted at once, smart unqualified Assistant, accustomed to Store trade; must be good Counter-man and Window-dresser; weekly half-holiday; no Sunday duty. Apply, with full particulars, stating age, height, experience, references, and salary required, to the Secretary, Taylor's (Northern), Ltd., 3 Woolshops, Halifax.

IPSWICH.—Assistant, chiefly for Dispensing Counter, in good-class Country business; gentlemanly appearance and address; must be well up in his work and well recommended; permanency. Apply, with photo, stating salary expected and references, Oldfield (late Pain & Baylis), Cornhill, Ipswich.

LIVERPOOL.—Wanted, first week in the New Year, Junior Assistant (20-22), indoors, for a good-class Dispensing business. Apply, with all particulars, to Harold Wyatt, Pharmaceutical Chemist, 223 Stanley Road, Bootle, Liverpool.

LONDON, S.W.—Assistant, of good education, experience, and address, for first-class business. Apply, with full particulars, to Mr. R. A. Robison (W. Malden & Co.), 195 Brompton Road, London, S.W.

LONDON, N.—Unqualified Junior Assistant wanted for Light Retail, Dispensing, Photographic, and Optician's business (outdoors), to commence duties on January 1 next. Apply, stating age, height, experience, salary required, and if convenient enclose photograph, to Dow Brothers, Pharmacists and Opticians, 433 Green Lanes, Harringay, London, N.

LONDON, S.W.—Qualified Assistant (indoors), age about 24, for a good Dispensing and Retail business. Apply, with particulars, salary, etc., with photo, to Foster Blades, 10 Gloucester Road, South Kensington, S.W.

LONDON, W.—Wanted, smart unqualified Junior; must be a reliable Dispenser, good Counterman, and of gentlemanly appearance, about 23 years of age. Full particulars and photograph to Sanguinetti & Harding, 120 Uxbridge Road, Ealing, W.

LONDON, W.—Qualified Assistant, with good experience. Apply (by letter only in first instance) to Wallas & Co., 36 New Cavendish Street, W.

LONDON, S.W.—Junior unqualified Assistant wanted; outdoors, sleep in. Apply, giving full particulars and salary required, to A. J. Phillips, 156 Cromwell Road, South Kensington.

LONDON, W.—A thoroughly competent, trustworthy Assistant for good-class Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, London, W.

LONDON, N.—Qualified Manager at once; good Counterman, knowledge Photography; one whole day off weekly. Long, 128 Upper Clapton Road, N.E.

LONDON, S.W.—Junior qualified Assistant (indoors), 2s, for December 29. Pope Roach & Son, 8 St. James's Street, S.W.

LONDON, W.—Qualified Assistant (outdoors). Apply personally, if by post stating age, experience, salary required, reference, Allens, Ltd., 155 Praed Street, Paddington.

MALVERN.—An Assistant, accustomed to a good-class business (indoors), one having a knowledge of Photography preferred. Apply, stating salary required, experience, age, height, and enclose photo, to W. H. Jones, Pharmaceutical Chemist, Malvern.

MALVERN.—Wanted, about the middle of December, a young qualified Assistant, of good address, accustomed to good-class Dispensing business; indoors. Please state full particulars in first instance and enclose photo if convenient, A. E. Baylis, Gt. Malvern.

MANCHESTER Suburbs.—Wanted, qualified Assistant, on wage and commission; applicant must be agreeable and able to get on well with customers; middle-aged man not objected to; 2 afternoons per week off. Give particulars in first instance of age, experience, and references, enclosing photo, 45/35, Office of this Paper.

NOTTINGHAM (near).—Reliable and energetic qualified Manager (outdoors) required for Light Retail Country business; easy hours; weekly half-holiday; no Sunday duty; good references essential; no photographs required. Applications not answered in 3 days respectfully declined. Particulars of experience, age, height, salary required, and when disengaged, to "Cortex" (42/10), Office of this Paper.

OXFORD.—Wanted, a competent qualified Assistant, accustomed to first-class Retail and Dispensing; preference given to one well up in Optics and Photography; single or married. Apply, with full particulars, stating age, height, and salary required (outdoors), with photo (to be returned), to D. R. Thomas, Cousins, Thomas & Sons, Oxford.

RHYL.—Wanted, on January 1, qualified Assistant; knowledge of Welsh preferred; age about 30; outdoors; abstainer, trustworthy, and good Counterman; for Branch with sub-Post Office attached; references, salary required, and photo. Apply, Geo. E. Gratton, Chemist, Queen Square, Rhyl.

SWANSEA.—Required, end of December, good all-round Junior, with some experience of country trade; qualification not essential; outdoors. Full particulars to Bevan, Chemist, Swansea.

TORQUAY.—Assistant (indoors) for third week in December, age 24-27, for good-class Dispensing and Retail business; 3 kept; qualified preferred, but not essential. Please state height, experience, references, and salary required, to H. F. Bourne, 11 Strand, Torquay.

TUNBRIDGE WELLS.—A smart Assistant required, with good Dispensing and Counter experience, for high-class modern Pharmacy; outdoors. Please state age, height, experience, and salary, also enclose photo. H. S. Pearmund, Pharmaceutical Chemist, High Street, Tunbridge Wells.

WEST END.—A qualified Assistant (indoors), where 3 others are kept; one with West-End experience preferred. Personally or photo to "H. S.," 7 Pall Mall East, S.W.

WEST RIDING, Yorkshire.—Wanted, Junior or Improver (outdoors) for small Mixed suburban business; no heavy work; time for study. State age and salary required, Fish, Chemist, Wheatley, Doncaster.

WIMBLEDON, S.W.—Junior or Improver wanted immediately; must have had good training; no Sunday or holiday duty. Apply, 45/36, Office of this Paper.

A N Assistant wanted in a Dispensing business early in January. Apply, Hardwick, 21 Commercial Road, Bournemouth.

A SSISTANT; young, single; qualified; indoors; comfortable home. Apply, with photo, experience, and salary required, Felce & Co., 22 High Street, Bromley, Kent.

BALKWILL & CO. require the services of a qualified Junior; outdoors; one used to first-class Dispensing and Retail. Apply, giving full particulars as to experience, height, age, salary required, etc., and enclosing photo, to F. W. Hunt, 106 Old Town Street, Plymouth.

GENTLEMAN as Manager and Buyer, qualified, required in high-class Store, with good experience, to take charge of Drug and Dispensing Department, capable of extending same. Apply, by letter, Cater, Stofell & Port, Ltd., Bath.

JUNIOR or Improver; outdoors; good-class Retail, Dispensing, and Photographic; half-day weekly; Sunday duty 2½ hours fortnightly. Particulars, including age, height, experience, salary expected, when disengaged, references, and photo, if possible, to Matthews (Cash Chemists), Ltd., "Nantwood," Hoppers Road, Winchmore Hill, N.

Q UALIFIED Manager required for January 1; young married man preferred, used to Store trade; house attached; permanency to suitable man. State age, experience, salary required, and give references, J. Savage & Co., Ltd., Chemists, Bradford.

Q UALIFIED Manager (married) required immediately for a Light Retail business in the Midlands; house attached; salary and a commission on the profits to a capable man. State age and when at liberty, 39/82, Office of this Paper.

M ANAGER; qualification not essential; abstainer; good-class Dispensing and Retail, Photography; Assistant kept; only men possessing energy and sound business capabilities need apply; must be able to build up business against keen Store competition; to a suitable man good prospects. Apply, with full details of experience, etc., enclosing photo (to be returned), and salary required, to 44/36, Office of this Paper.

U NQUALIFIED man required to take charge of Branch in residential suburb of a busy West Riding town; must be good Prescriber, smart Window-dresser; married man preferred; comfortable permanency to the right man. 39/28, Office of this Paper.

W ANTED, smart Junior, one who has just finished an apprenticeship in a business having Wine and Spirit Licence preferred; must have good references. State when at liberty and salary required, 39/208, Office of this Paper.

W ANTED, early in January, for a permanency, an Assistant, about 25, competent in Dispensing and Retail, for good-class business. State last two engagements, qualification, age, height, and salary required (indoors), to John Bailly & Co., 2 Ethelbert Terrace, Margate.

W ANTED, a first-class Senior Assistant by January 1, 1912, for 3 months; must be a quick and accurate Dispenser; 3 others kept; good references indispensable. F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

W ANTED, about December 18, for London, W., young qualified Chemist, temporary; must be used to Store trade and capable of taking charge. Apply, giving full particulars, to 45/28, Office of this Paper.

WHOLESALE.

H OUNDSLOW.—Wanted, in Chemical Works, smart Junior Laboratory Assistant; preference given to one having some knowledge of Colour Testing; highest references and full particulars of experience required; commencing salary £1 per week. 39/30, Office of this Paper.

D RY-FLOOR; Porter, strong and experienced. State salary required and full particulars, 258/65, Office of this Paper.

E XPERIENCED Traveller wanted, to call on Stores, Drapers, and Manufacturing Chemists in the West End of London; must have good connection. Apply, with full particulars, stating turnover, salary, etc., 45/34, Office of this Paper.

I NVOICE Clerk wanted by Wholesale house; must be good Writer and quick at Figures. State wages and experience, 44/37, Office of this Paper.

M ANUFACTURER of soft and hard Rubber goods, especially Surgical and Chemists', requires two smart Representatives for London and Scotland, to call on customers and bring new business, smart gentlemen with good connection and experience need apply; only commission and salary; later on small interest in firm obtainable. Give fullest particulars, 257/1, Office of this Paper.

M ANUFACTURERS of Pharmaceutical Chemicals, whose brand is well known and business capable of considerable increase, wish to engage gentleman to Represent them in London and provinces; applicant must be of good address and have thorough connections with buyers of Wholesale Druggists and Manufacturing Chemists, based on travelling experience in this particular line; good chance for energetic and reliable salesman. State age and full particulars, by letter, to 255/6, Office of this Paper.

P ILL MASS.—Young man, experienced in making Pill Mass, required at once for large house near Stratford, E.; also man for general "Lab." work. Apply, by letter, "Expert" (39/8), Office of this Paper.

S MART Traveller required at once for West End of London, for Druggist Sundries and Fancy Articles; must be experienced. Apply, with full particulars, to 45/43, Office of this Paper.

T RAVELLER wanted, to call upon Wholesale Chemists; must have had experience in this branch of work; good salary to the right man. Write, stating experience and full particulars, J. B., Box 1450, Erwood's Advertising Offices, 30 Fleet Street, E.C.

W HOLESAL, Druggists' Sundries.—A vacancy occurs in small Wholesale house for a capable Assistant for General Warehouse and Office work. Apply, with full particulars of age, experience, and salary required, to "X." (44/38), Office of this Paper.

SITUATIONS OPEN

(Colonial, Indian, and Foreign).

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

INDIA.—A firm of Wholesale Druggists require a Representative; would not object to part Representation. State full particulars, experience, salary, etc., to "India" (255/18), Office of this Paper.

CAPE COLONY.—Messrs. J. A. Willet & Co., Port Elizabeth, require qualified Assistant; 3 years' agreement; second-class passage paid; salary £16, £17, £18 per month for first, second, and third years; excellent opportunity for smart, healthy young man desirous of going to South Africa. Apply, J. A. W. & Co., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

QUALIFIED Assistant, about 24, required for large Chemist's in Shanghai; 4 years' agreement and passage paid out and home; good prospects for capable man. Apply, with full particulars, to 243/17, Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

[HOME]. RETAIL.

LADY Dispenser; qualified; experienced; Doctor or Hospital. "H," 162 Holland Road, Kensington.

PART-TIME; London; disengaged; experienced; 25; Dispensing, Counter. "Rhei," Walkerville, Rhyt.

DISPENSER and Bookkeeper; 37; married; disengaged. Thornton, 15 Cheshunt Road, Forest Gate.

MANAGER; qualified; competent and energetic; abstainer; good reference. 43/31, Office of this Paper.

DISPENSER and Bookkeeper; experienced; excellent credentials. "Dispenser," 14 Vyvians Row, Camborne.

DISENGAGED; temporary or permanent; qualified; good experience; good references. 45/40, Office of this Paper.

MANAGER or Locum; tall; 25 years' varied experience; excellent references. "Major" (43/37), Office of this Paper.

MANAGERSHIP of good-class Pharmacy desired, with or without view to eventual succession. 42/15, Office of this Paper.

LOCUM; qualified; disengaged; all-round experience; age 40; good appearance, etc. "Salol," 47 St. Mary's Terrace, Hastings.

TEMPORARY engagements; permanency preferred; moderate salary; unqualified. "Willing," 5 Stockwell Street, Cambridge.

UNQUALIFIED Junior; 21½; good all-round experience; abstainer; London only; disengaged. "P," 15 Studley Road, Clapham, S.W.

ASSISTANT; 37; unqualified; West-End, suburban and seaside experience; Photography; references. "Statim" (42/21), Office of this Paper.

DISENGAGED; 28; 13 years' experience; Photography; good Dispenser; unqualified; good references; outdoors. 42/37, Office of this Paper.

JUNIOR; disengaged; 4 years' apprenticeship (Newark); Retail, Dispensing, Photography; Nottingham preferred. 43/36, Office of this Paper.

MANAGER, M.P.S., wide experience, energetic, abstainer, desires permanency; undeniable references. "Statim," 144 Sackville Road, Hove.

PHARMACIST; disengaged Christmas; Locum or permanency; good Dispenser; General experience. Miss Dunlop, M.P.S., Hetton-le-Hole, Durham.

QUALIFIED; 27; tall; good-class experience; disengaged Christmas; permanency; Midlands or North preferred. Salt, 14 Buckingham Street, Oxford.

IMMEDIATE.—Thoroughly competent, experienced, smart Counterman; Dispenser, Prescriber; any period. "Reliable," 75c Station Road, Camberwell.

UNQUALIFIED; good Dispenser, Extractor; Country. Retail; abstainer; single; outdoors; can take charge. "Zincum" (42/34), Office of this Paper.

LOCUM or engagement until April; exceptional references; qualified; 29; reliable; thoroughly experienced. "Leicester" (43/5), Office of this Paper.

QUALIFIED; 23; good experience, town and seaside; permanency desired; outdoors; good references. "Disengaged," Wentworth House, West Street, Bognor.

PHARMACIST (26), 10 years' experience, West End and South Coast, desires change to good-class Store; Photography; town or country; outdoors. 36/14, Office of this Paper.

UNQUALIFIED; single; Dispensing, Prescribing, F.S.M.C., Photography; varied experience; excellent references; permanency in provinces. 41/18, Office of this Paper.

QUALIFIED Lady Dispenser-Bookkeeper; 30; Doctors' and Institution experience and testimonials; well informed, thorough, willing, accurate. 41/23, Office of this Paper.

JUNIOR; 21; 6 years' experience; good Counterman, Photography; Lincolnshire preferred, not essential; disengaged middle of January. Lefevre, 9 Bridge Street, Whitby.

GERMAN Pharmacist (22) desires engagement as Dispenser, Stockkeeper, or similar occupation; good experience, Counter and Photographics. E. Leder, 22 Frederick Street, W.C.

MANAGER or Senior Assistant; qualified; 15 years' London experience; disengaged December 11; Photography; good references; age 37. Brown, 47 Chewton Road, Walthamstow.

SENIOR or Dispenser, good ability and wide experience, desires outdoor permanency; Brighton preferred; undeniable references. "Acus," 3 Oxford Mansions, Oxford Road, Gunnersbury.

TAUNTON or near.—Junior (21), studying; 5 years' experience; good reference; Dispensing, Photography; moderate salary for good hours; disengaged. "Tauntonian" (43/2), Office of this Paper.

HOME or Abroad; qualified; 30; married; sterling references; Wholesale preferred; fluent French and Italian; good administrator; disengaged January 1. "H. C.," 10 York Road, Hove, Sussex.

QUALIFIED Manager, with exceptional experience in all branches, desires position as Manager of large Branch or Department. "Experience," Wright, Layman & Umney, Southwark Street, S.E.

NURSE-HOUSEKEEPER with Doctor or Dentist; or Nursing Home Matron; 30; highly efficient, medical and surgical; masculine; excellent references; Liverpool district preferred. 39/23, Office of this Paper.

WELL-EDUCATED Pharmacist (40) desires Manager's berth; London or provinces; Optics, Teeth, Dispensing, Photography, Prescribing; experience all round. Furnival, "Sandringham," Lowestoft Road, Gorleston-on-Sea.

LONDON, W. preferred; unqualified; 24; 5 ft. 8½ in.; 8½ years' high-class Dispensing, Retail and Photographic experience; at liberty shortly; fluent French; knowledge of foreign Dispensing. Apply to "Pharmacien," 178 Spring Bank, Hull.

WANTED, by Medical Student, with Minor qualification, Dispensing with Medical man or part-time post with Chemist in Manchester and district; free for Locum post for 3 weeks after December 16; any district. 43/11, Office of this Paper.

DENTAL.—Expert Operator desires re-engagement; excellent at Extractions, Impressions, Models; take charge all branches Chemist's business; South preferred, not essential, married; desires permanency; disengaged any time. Apply, "Sanspen" (43/32), Office of this Paper.

SMART, up-to-date business man seeks permanency with prospects; 27; 11 years' valuable all-round experience. Prescribing, Dispensing, practical Photographics; used to taking charge; exceptional references; unqualified; disengaged early January "Radium" (41/11), Office of this Paper.

LOCUM; qualified; town or country. West, 47 Vicarage Road, Leyton, London, N.E.

JUNIOR; 20; disengaged end of December. Daniels, Crossvale, Llanpumpstain, near Carmarthen.

UNQUALIFIED; 32; Dispenser. Prescriber, Extractor; Yorks preferred. "W. B.," 15 Worship Street, Hull.

BRANCH Manager, Locum, Dispenser; qualified; married. "Rhei," 51 Hartwell Street, Litherland, Bootle.

DISENGAGED December 9; qualified (25) requires position, West End or City. "G.," 187 Ramsay Road, Forest Gate.

DISENGAGED; competent, experienced Assistant; London; short hours. "Statim," 141 St. George's Road, Southwark.

UNQUALIFIED; 36; disengaged; 10 years successful London Drug Stores Manager. 24 Belle Vue Road, Ramsgate.

SOLD business; all-round experience; abstainer; mutual terms. "Chemist," 23 Welleclose Mount, Blackman Lane, Leeds.

QUALIFIED, excellent references, Dispensing, etc., desires permanency. Hodgkinson, Nelson Street, Barrow-in-Furness.

PHARMACEUTICAL Chemist (50) seeks situation; varied experience; good Prescriber. Atkinson, Bassenthwaite, Keswick.

QUALIFIED; Manager, Senior; outdoors; thoroughly experienced; disengaged. 87 Lower Bank Road, Fulwood, Preston.

SUCCESSION preferred; Manager; 35; qualified; single; £200 down, remainder by instalments. 45/11, Office of this Paper.

UNQUALIFIED; 23; married; 8 years' experience, Dispensing, Photographic, Counter; outdoors. Lloyd, 27 Lowther Road, Brighton.

ASSISTANT; tall; good appearance and address; excellent Counter and Dispensing experience. "Statim" (41/4), Office of this Paper.

MANAGER; qualified; 33; highest references; view to succession preferred. "Manchester," 18 Rusholme Place, Rusholme, Manchester.

GERMAN (38), 5 years' London and 4 years' Paris experience, requires situation beginning January; outdoors. 257/11, Office of this Paper.

MANAGER; experienced in good-class Dispensing, Photographic; highest testimonials. "Pharmacist," Clydebank, Parkstone Avenue, Parkstone.

AVAILABLE for Locum throughout December; qualified; 30; abstainer; excellent experience and references. "Pharmacist," 19 Clarendon Road, W.

MANAGER; qualified; 32; all-round experience; Optics, Photo; highest references; disengaged; permanency. "Gentian," 83 Mill Gate, Newark-on-Trent.

JUNIOR; 22; 4 years' experience in good-class Dispensing business; knowledge of Photography; disengaged January 1. C. Fairhead, 34 Head Street, Colchester.

MANAGER; permanent or temporary; disengaged; qualified; married; age 47; 31 years' town and country experience. "Minor," 3 Helena Avenue, Margate.

JUNIOR; 22; 5 ft. 9 in.; Dispensing, Counter, Photographic experience; Midlands preferred; good reference; outdoors; disengaged. Rigley, Langley Mill, Notts.

QUALIFIED; 33; tall; married; 18 years' experience, Counter, Dispensing, Photography; permanency; London or Suburbs. Stewart, 36 Birkbeck Avenue, Acton, W.

SMART Assistant; capable Counterman and Dispenser; good all-round experience; London or Suburbs; outdoors; disengaged. "Statim," 62 Lancelot Road, Wembley, N.W.

COMPETENT, unqualified, with City and W.C. experience; 26; abstainer; Photography; highest references; please state hours. Jackson, 132 Riverdale Road, Plumstead.

JUNIOR or Improver; 20; indoors; 3 years' apprenticeship; time for study required; London or district; good testimonials; disengaged "C.," 14 Cowley Road, Leytonstone.

CHEMIST (50) seeks appointment as Surgeon's Dispenser, outdoor employment, or Locum; country district preferred. "Chemist," The Nook, Heyes Lane, Timperley, Cheshire.

COMPETENT Manager; Minor; single; City, Suburban, or provincial; accustomed to having sole control; salary and commission; large business preferred. 44/39, Office of this Paper.

AS Manager; steady, reliable, energetic; good all-round experience; good references; unqualified; moderate salary. "Chemist," c/o Burgess, 15 Walter Street, Fallowfield, Manchester.

AN experienced qualified Manager, partly engaged, requires berth as Locum, or a permanency; highest references; moderate salary. "Energy," c/o Howard, Chemist, 184 Old Kent Road, S.E.

MANAGER; qualified; 34; married; live over premises preferred; experienced, London and Provincial, Dispensing, Photography, little Optics. Collitt, c/o Mr. W. Maskew, F.S.M.C., Pharmaceutical Chemist, Clacton-on-Sea.

TEMPORARY; qualified gentleman (35) as Locum or temporary Manager for next few weeks; excellent references; all-round good-class experience; Midlands or South. "Statim," c/o Blanquettes Avenue, Worcester.

MAN; unqualified; middle-aged; experience; General Retail, Wholesale, or Travel; any district; moderate wage. "Beta," 22 Totteridge Road, Enfield Wash.

WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

DRUG Traveller, with turnover of £5,000 per year, desires change. 41/21, Office of this Paper.

TRAVELLER, good connection South Wales, wishes to Represent good house on part expenses and commission. "Alpha" (43/12), Office of this Paper.

ENGAGEMENT required by active, pushing Traveller; 4 years' connection in the South; good Speciality not objected to. 42/23, Office of this Paper.

TRAVELLER, accustomed to Stock-room work and handling large quantities of samples, wishes to Represent first-class house. 41/201, Office of this Paper.

GENTLEMAN wishes to Represent Drug and Surgical-instrument house (or either singly); connection Midlands; salary and expenses. 42/33, Office of this Paper.

TRAVELLER, qualified Chemist (25), requires engagement; Medical men, Chemists; 2 years' experience, also Retail several years; excellent references. 38/13, Office of this Paper.

YOUNG man wants situation with Wholesale house, where he can increase his knowledge of Compounding; experience of more importance than salary. 41/10, Office of this Paper.

ANALYST, B.Sc. (Lond.), F.I.C., long experience in Food and Drugs Analysis, desires to improve present position; fair knowledge of Bacteriology, also of French and German. 42/38, Office of this Paper.

TRAVELLER is open to Represent additional house on part expenses and commission; 5 years present house; established connection, Doctors, Chemists, etc., N.W. Counties. "Iempus" (42/91), Office of this Paper.

GENTLEMAN (25) desires to Represent a good enterprising house; connection amongst Doctors, Chemists, Veterinary Surgeons, etc.; working same ground 4½ years; highest references. "Ligatures" (42/109), Office of this Paper.

GENTLEMAN having Stand in Trades Exhibition touring important centres is open to negotiate with high-class firm having good Specialities or Novelties to introduce; competitive exhibitors disallowed. Write, stating full particulars, "Contract" (42/19), Office of this Paper.

JUNIOR (19), tall, Prelim., just finished apprenticeship, seeks situation in a Wholesale house; Birmingham and district preferred, but not essential; excellent testimonials. 38/16, Office of this Paper.

QUALIFIED, 17 years' business experience, 7 devoted specially to Advertising, all branches, wishes to get in touch with Wholesale or Retail firm with object of taking charge of Advertising Department, or organising one if necessary; novel Window-displays, Showcards, Booklets, Trade-paper, Newspaper, Mail-order, etc., work; interview. 38/17, Office of this Paper.

WANTED.—A qualified Medical Man (M.B., C.M.) wishes to obtain 12 to 24 months' work as Travelling Representative of a reputable firm; will travel anywhere required on salary and travelling expenses, or as may be arranged; has been over 20 years in general practice; highest references and best guarantees. "M. B." (273/40), Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

SCOTSMAN, qualified, disengaged, desires situation in Canada, India, or Australia; good all-round Home and Colonial experience; steady. 43/21, Office of this Paper.

MISCELLANEOUS.

MADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—20 Apollinaris Ordinary, £6 18s.; 250 Baiss Bros. & Stevenson 5½ per cent. Preference, 11s. 7½d.; 50 Brunner Mond, £5 0s. 9d.; £50 Camwal 4½ per cent. Dohenture, £36 5s.; 100 John Knight Ordinary, 25s.; 220 Parke's Drug Ordinary, 2s. 9d.; 200 Ilford Ordinary, 15s. 1½d. x.d.; 200 A. J. White Preference, 10s. 6d.

WANTED (subject).—500 Camwal Preference, 5s. 7½d. c.d.; 500 Idris "A" Preference, 5s.; 100 G. B. Kent Preference, 15s. 6d.; 200 Bovril Preference, 21s. 7½d.; 50 Virol, 21s. 6d.

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

GUM KINO.—Write for offers, C. F. Ramon, Hamburg 1.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

SHOPIFITTINGS (equal to new).—13-ft. Drugfitting, with Mahogany and Glass-labelled Drawers, etc.; 12-ft. Mahogany and Plate-glass Serving-counter, with Counter Drawers at back; Mahogany and Plate-glass Perfumery Showcase and Desk; 6-ft. Mahogany and Bent Plate-glass Counter Showcase; 10-ft. handsome Mahogany Wall Showcase; 6-ft. Mahogany and Plate-glass Dispensing-screen and Counter, with Sponge-case; all in excellent condition; price £60; ready for immediate use. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

CHEMISTS' second-hand large Stock of Drug-fittings, Wall-cases, Dispensing-screens, Glass-fronted Counters, Window-enclosures, Mirrors, Window Shelves, Swan-neck Carbonyls; also complete Fittings for large Drug Stores; cheap to clear; estimates free. H. Mills, Chemists' Up-to-date Shopfitter, Shop-front Builder, Steam Works, 163-5 Old Street, London, E.C. Phone 550 London Wall.

GUM KINO.—Write for offers to "C. M. 539," Haasenstein & Vogler, A.G., Hamburg.

Woollen Grease Distillates

required in large quantities.

Offers to W. 500, care - - -
HAASENSTEIN & VOGLER, A.G.,
BIELEFELD, GERMANY.

IT IS NOT TOO LATE FOR YOU

to receive my ideas for Xmas. Three schemes are suggested, and at least one of these will be suitable for your business. These are entirely different to last year's. After Xmas another good window display is required; this is included in this month's letter. Send for Booklet, "How to Increase Your Business," explaining my system together with testimonials. Post free to Pharmacists only.

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.

TWO MORE VERBATIM TESTIMONIALS.

The first is from Lancashire dated Dec. 3rd, 1911—"Business is splendid, took £62 14s. over the counter last week." The other is London, N. This chemist says—"November was the first month we did not have a good increase over corresponding month of previous year, it was only £4 difference." Write for my free booklet, "How I Increase Chemists' Businesses," and do as these chemists do. See Diary Advert. page 114.

BERNARD SLACK, 9 King St., Wolverhampton. Nat. Tel. 581.

EXCHANGE COLUMN FOR DISPOSAL.

BOOKS AND PERIODICALS.

B.P. Codex, 1907; what offers? ANDERSON, Chemist, Sunderland.
WHAT offers?—Codex, B.P. '98; "Pharmaceutical Formulas," vol. 1 and vol. 2, 1904; good condition. HINKLEY, Lisford, Cheshire.

DRUGS AND CHEMICALS.

WHAT offers?—2 lb. opium, Persian, finest. BEATON, 14 England Lane, N.W.

FOR sale, 7 or 8 lb. of old ol. lavand. Ang., very fine and thoroughly matured; what offers? PRINGLE, The Pharmacy, Haydon Bridge.

OPTICAL AND PHOTOGRAPHIC.

HALF-PLATE Lizar's Challenge outfit; ½-plate Instantograph outfit; Ticks outfit; Wynne's meter; 10s. 6d. "Stiplette" (new). 38/12, Office of this Paper.

BARGAIN.—Memorandum-sized Erena camera, cost £7; sacrifice £2 or best offer (with 4 packs films quite fresh), unscratched; condition equal to new. BERG, Chemist, Hatherleigh, Devon.

SHOP FITTINGS.

WHAT offers, specie jar, 30 in., magnesia, as Maw's 1459, or exchange? GOLDTHORPE, Chemist, Beverley.

MISCELLANEOUS.

OVERSTOCKED.—Three dozen 1-lb. tins snagar of milk, guaranteed, 11s. 6d. per dozen. BOORN, Pharmacist, Surbiton Hill.

WOLFFS' bottles, Kent's emulsifier and freezer, Doultou 8-gal. barrel, chemical sundries; cheap for quick sale. BRAND, 50 Loughborough Road, Brixton, S.W.

WHAT offers?—B.P. Codex, 1897, perfect condition; Barnett & Foster's No 2 Compact soda-water machine, in use, good condition. HOWARD, 4 Napier Road, Kensington.

14 GRAMOPHONE records, Odeon, gramophone, Columbia, zophon, 10 in., as new; cost 43s. 6d., accept 25s., carriage paid. NICHOLLS, 21 Jubilee Street, Newquay, Cornwall.

HANDSOME gas stove, asbestos, suit shop, 10s.; 8 plated forceps in mahogany case, 22s. 6d.; collection of dried British plants in 22 cases, imitation folios, about 1,600 specimens, with MS. index; £1 lot. HICKMAN, Abbotts Road, Southall.

WANTED.

SCALES, infant's, dial pattern, perfect order, 7s. 6d. Binfield House, Clapham, S.W.

SOUTHALL'S "Biblical Materia Medica." Lowest price, R. ANDERSON, Chemist, Sunderland.

OPTICAL trial case, test lenses, spherical cylindrical prisms. DUCK, Chemist, Whitechurch, Glam.

OPTICAL books; Minor, Major Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

CHEMICAL balance, cheap, but correct, steel edges on agate, with riders, in glass case, no weights, to show ¼ milligramme with 100 gramme load; Becker's or Oertling's, or other good make. JOHNSON, 5 Concert Street, Liverpool.

Olive Oil.

The fact that the demand for olive oil on this side has been rather stagnant for weeks past is doubtless largely due to the satisfactory crop reports received from most producing countries, although prices in the Transatlantic trade have been lately rather firmer, thanks to a more active consumptive demand stimulated by the reports of political unrest in Italy. Advices from the latter country, however, as regards crop prospects indicate an increase of 20 to 25 per cent. in the oil production. The Italian official returns of exports for January to the end of August are given as 26,720 tons, compared with 29,926 tons last year and 16,994 tons in 1909. Reports from Alcaniz (Spain) state that the olive crop in Spain is abundant, and that in view of the liberal yield in Italy it would not be surprising to see prices during this season reduced to a relatively low level. It is believed that the great bulk, if not the entire Spanish crop, will be used for conversion into oil, as the fruit can hardly be preserved for eating purposes. Parcels have been sold to Barcelona and Tortosa at 17 pesetas for superior oil quality and 14 to 15 pesetas for ordinary O. The latest Marseilles quotation available for Spanish (dragon) refined is fr.185 to fr.190 per 100 kilos., and Levant fr.145 to fr.146. According to a Consular report, the prospects of the new olive crop in the Beirut and Lebanon districts are very favourable, and the early autumn rains are expected to improve its condition and cause an increase of from 10 to 15 per cent. in the oil yield. The latter has been roughly estimated for the two districts at 11,200 tons. The competition of cottonseed oil, which is much cheaper, has, it is said, caused a serious crisis in the olive-oil trade. Although 300 tons of cottonseed oil have been recently imported into Beirut from Great Britain and Egypt, causing a fall of 25 per cent. in the price of olive oil.

BRUNNER, MOND & Co's

Alkali
Products.



Crescent
Brand.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

**Bicarbonate
of
Soda.**

This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

**Concentrated
Crystal
Soda.**

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali.
58 Degrees

A dry white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

**Pure
Soda
Crystals.**

NOTE.—Proceedings have been taken by the Board of Trade against a person for selling as Soda Crystals an adulterated article, and the High Court has upheld the conviction. See the case of FOWLER v. CRIPPS, heard on 8th November, 1905, before a Divisional Court, consisting of the Lord Chief Justice, Mr. Justice Wills, and Mr. Justice Darling.

**Caustic
Soda.**

**Bleaching
Powder**

**Carbonate
of Ammonia,**

**Manufactured from pure Carbonate, and
supplied of all degrees of strength.**

Lump and Powder.

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co's "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE

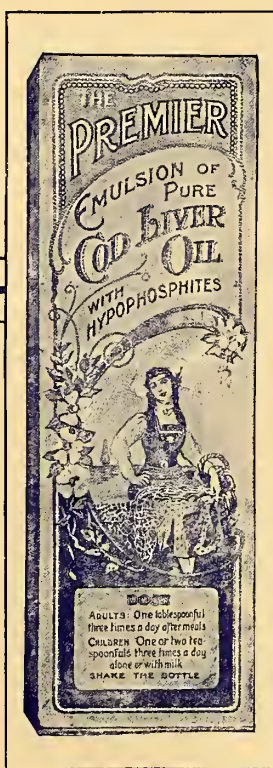
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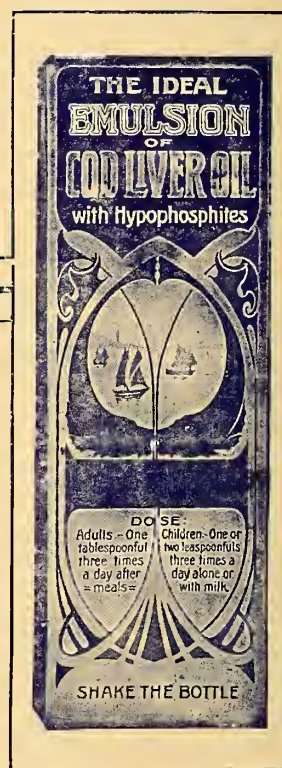
thus enabling each Pharmacist to secure the monopoly of one
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No. 5.



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Emulsified by the most efficient mechanical contrivance yet designed, the
"Par Excellence" Emulsion is a "Perfect Cream." It cannot separate.

A sample bottle, carton, and attractive card free on application to

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